

OPERATING GUIDE

BECKER

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24-month warranty

The company United Navigation GmbH, Marco-Polo-Str. 1, 73760 Ostfildern, Germany, provides a world-wide, 24-month warranty (battery: 6 months) for BECKER units, beginning on the day of delivery to the final customer (buyer).

Within the framework of the warranty, functional defects will be eliminated free-of-charge, provided that these can be shown to be the result of material or manufacturing faults and this shall be effected either by elimination of the fault or by provision of a new unit, at the discretion of the manufacturer. Warranty claims must be registered by the buyer immediately after defects are discovered and must be accompanied by the initial buyer's purchase contract.

The warranty expires after 24 months (battery: 6 months); neither warranty claims nor fulfilment shall effect an extension of the warranty period.

Faults resulting from improper handling, incorrect installation of the unit, improper noise suppression of the vehicle, static charge or mechanical damage are excluded from the warranty.

The warranty is invalidated in the case of repairs or tampering on the part of the buyer or unauthorised third parties.

Repairs may only be performed by persons and service centres expressly authorised by the manufacturer or by the manufacturer himself.

This warranty does not affect or restrict the legal warranty rights of the buyer.

Safety instructions

- Use of the device is only permitted if the traffic conditions are suitable and you are absolutely sure that its use presents no risk, distraction or inconvenience to you, your passengers or other road users.
Traffic laws and regulations will apply in each and every case. Destinations may only be entered when the vehicle is stationary.
- The navigation system is merely an aid, data/information may in select cases be incorrect. The driver must decide in each situation by him- or herself if he or she will follow the directions. No liability will be assumed for incorrect directions provided by the navigation system. Imprecise or incorrect directions may be provided due to changing traffic patterns or deviations in data. Therefore, you must always observe the actual road signs and traffic regulations. In particular, the navigation system must not be used as an orientation aid at times of poor visibility.
- The device may only be used for its intended purpose. The volume of the navigation device must be adjusted so that ambient noise can still be detected well.
- Turn the unit off immediately if a defect occurs (e.g. emission of smoke or odors).
- For reasons of safety and security, the device must only be opened by a professional. In case of needed repair please consult your dealer.
- Navigation devices from Becker could contain magnets. Do not bring them near magnetic data carriers (notebooks) or cards (EC cards, credit cards etc.). These could get damaged or be rendered unusable if brought into contact. Magnets can impair the function of cardiac pacemakers! Persons with cardiac pacemakers should not carry the device too close to their bodies.

- It is forbidden to exceed the supply voltages (Volts) specified for the mains adapter, the motor vehicle charging adapter and the product. In case of non-observance, the product or the charger may be damaged, or the battery may explode.
- Do not open the product or the battery under any circumstances. No modifications of the product are permitted, any such modification leads to the loss of the operating permission.
- Only use original BECKER accessories. This way it is ensured that all relevant provisions will be met and that health risks and damages to the product are avoided. Dispose of the used product or the battery according to the legal regulations in effect.
- Improper use excludes all warranties! The safety instructions are also valid for any original BECKER accessories.
- Permissible temperature range: -20°C to +70°C storage / -10°C to +60°C operation
- The device is protected against dust in harmful quantities in accordance with DIN EN 60529.
- The device is protected against temporary submersion under water in accordance with DIN EN 60529.
- Do not use any sharp objects to remove the battery.
- Keep the battery away from children.
- The battery must not be disassembled, pierced or damaged in any other way.
- When replacing the battery, the correct replacement battery must be used. If another battery is used, there is a danger of fire or explosion.
- Faulty cabling of the mains cable with bare wires can cause damage to the vehicle or battery as well as injuries. For this

reason, United Navigation GmbH strongly recommends to have the device installed by a technician who has experience with electrical equipment.

- The user must check whether the device is suitable for the intended use and connection.
- The user shall bear all risks associated with the use of the device and the installation.
- United Navigation GmbH will not be liable for any injuries, losses, damage or consequential damage caused by modifications to the device and accessories, improper installation, operating errors, hazards in road traffic and accidents.

Operating manual contents

This operating manual contains the description of your Becker navigation equipment.

This manual contains descriptions for different model versions in a single document. Therefore, some of the functions described here might not be available for your equipment under certain circumstances.

All pictures are similar.

Use

This navigation device provides you with a powerful PND (**P**ersonal **N**avigation **D**evice) for use in and on vehicles.

Navigation

The use of the GPS = **G**lobal **P**ositioning system eliminates the tedious process of looking in street maps.

The receiver antenna integrated into the product allows constant access to the navigation services outside buildings. Within buildings, it is currently not possible to access any navigation functions. When using in vehicles, it might not be possible to receive sufficient GPS data depending on the installation position of the Navigation device.

Images

The Navigation device has a Picture Viewer with a lot of image display functions.

Headset

Your Navigation device is equipped with Bluetooth® wireless technology. You can connect a headset or telephone equipped with Bluetooth® wireless technology via Bluetooth®.

Unpacking the Navigation device

Note:

Your Navigation device is delivered in a stable packaging. If the packaging or its contents show the signs of serious damages, you must not continue to unpack the product. In such case, please contact your dealer.

Checking the contents

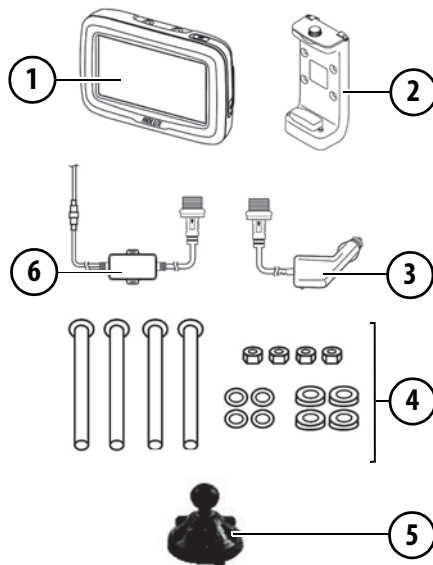
Before you start using the Navigation device, the scope and condition of the contents must be thoroughly checked (see also page 13).

> Unpack the contents carefully and check them thoroughly.

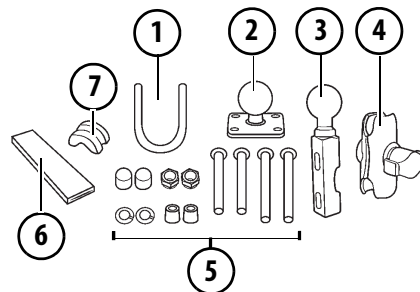
Overview of functions

- : standard
- : not available
- : optional

	Navigation system								
	mamba.4 CE LMU BE P00	mamba.4 LMU plus BE P10							
Speed camera detector	○	○							
Driver warnings	-	●							
Headset	●	●							
Trip computer	●	●							
Display height profile	●	●							
Move route	●	●							
ADAC Camping Guide	○	●							
Lane assistant Pro 3D	●	●							

Standard delivery**Device and accessories**

- ① Device
- ② Device holder
- ③ Vehicle charge cable (optional)
- ④ Fastening set
- ⑤ Car holder (optional)
- ⑥ DC-DC adapter

Handlebar holder (optional)

- ① Bracket screw
- ② Plate with spherical head
- ③ Square shaft with spherical head
- ④ Connecting piece
- ⑤ Screws, washers, spacers and nuts
- ⑥ Rubber protection
- ⑦ Adapter

Complaints

In case of complaints, please consult your dealer. The equipment may be sent directly to United Navigation in its original packaging.

Handling the packaging

Keep the original packaging in a dry place, at least for the warranty period.

Note:

The disposal must be performed in a professional manner, according to the country-specific regulations. The packaging must not be combusted. Depending on the country of delivery, it might be possible to return the packaging to the dealer.

Description of the device

The navigation device consists of the basic unit and the accessories included in the scope of delivery.

For descriptions of the individual parts, see:

- "Standard delivery" on page 13

Note:

The basic unit and accessories must not be opened or modified in any way.

The basic unit

The basic unit consists of the complete electronic unit:

- Integrated antenna
- Touchscreen
- an integrated loudspeaker

On the side of the unit, there are also various connections and ports.

You will find more details of the unit under:

- "Model overview and technical specifications" on page 106

Cable for power supply from cigarette lighter

This cable allows the unit to be connected up to the car's cigarette lighter.

The power supply must satisfy the following requirements:

- DC current 12/24 V / 1 A

Motorcycle connecting cable

This cable makes it possible to connect to a switched supply voltage on the motorcycle.

The power supply must satisfy the following requirements:

DC current 12 V / 1 A

Battery

When depleted, the integrated rechargeable battery can be recharged by connecting the Navigation device to the power supply.

Connect the device to a 12/24 V socket in the vehicle with the vehicle adapter power supply unit.

Note:

You can charge your Navigation device using the vehicle charge cable included in the standard delivery.

When the Navigation device is connected to a PC, it is supplied with power via the PC and does not consume battery power.

USB connection cable

With the USB connection cable provided, it is possible to connect the Navigation device to a standard PC with a USB interface. The integrated flash memory of the navigation device and a micro SD card that may eventually be inserted can then be addressed by the PC like a removable storage device.

Note:

Switch the navigation device completely off, see "Navigation device Switch on/off (depending on model)" on page 27, before connecting the navigation device to the computer.

Unit bracket

The Navigation device can be mounted in

the vehicle using the unit bracket.

Information about the documentation

Quick Start Guide

The Quick Start Guide is designed to provide a brief introduction to operating your Navigation device. The most important basic functions of the Navigation device are explained in the Quick Start Guide.

Operating instructions

A comprehensive explanation of the Navigation device functionalities is contained in these operating instructions.

Registration

You can register your product using our software service. We will then inform you of any new updates and other news.

Registration is performed in the "Content Manager" - see page 34.

Repairs

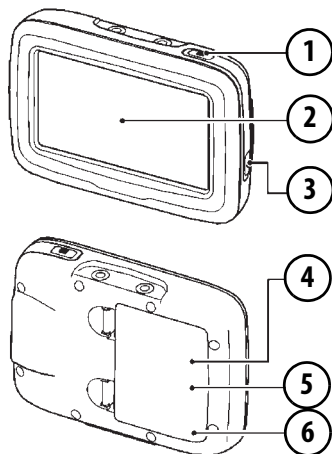
The unit must not be opened if damaged. Please contact your dealer.

Emissions and disposal

You will find details on emissions and electromagnetic compatibility and disposal in "NOTICE" on page 107.

Operating controls

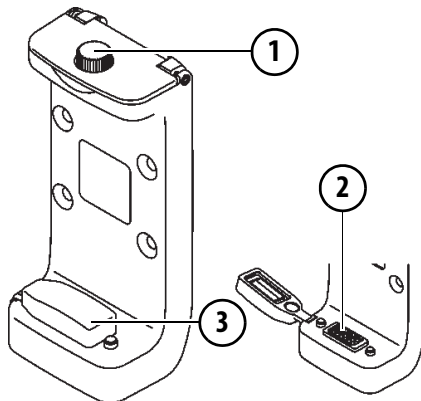
Device



- ① Main menu switch
- ② 4.3" LCD touchscreen
- ③ On/Off switch
- ④ Insert for micro SD card (under battery cover)
- ⑤ Mini USB connection (under battery cover)
- ⑥ Battery cover

Accessories

Device holder



- ① Screw
- ② Plug connection
- ③ Cover



Front of the device with control and display elements

- 1 Main menu switch:
Without Route = Main menu / With Route = Delete stopover
- 2 Touchscreen with selected main menu
- 3 Touchscreen button
Press = Activation of the corresponding button command
- 4 ON/OFF switch
- 5 Back button  in the lower left-hand corner of the screen = In most applications Back function
Long press = Call the main menu

Installing navigation device

Installing handlebar holder (optional)

⚠ Warning!

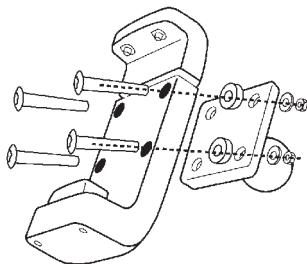
Faulty cabling or bare wires!
Improper electrical installation creates the danger of short circuit or damage to the vehicle and battery.

> Only allow trained personnel to install the device.

Notice:

United Navigation GmbH will not be liable for any injuries, losses, damage or consequential damage caused by modifications to the device and accessories, improper installation, operating errors, hazards in road traffic and accidents.

Attaching the plate with spherical head on the device holder



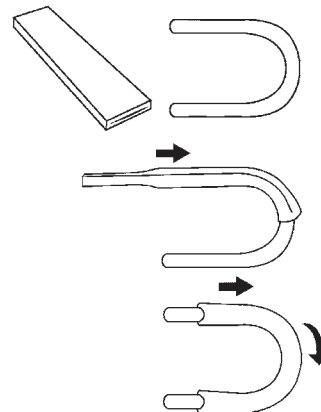
> Screw the plate onto the device holder.
To do this, use the fastening set of the device holder accessories.

Fastening handlebar holder on the motorcycle

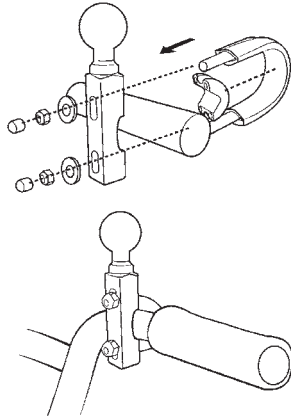
There are two methods for fastening the handlebar holder on the motorcycle:

- 1 Fastening with bracket screw on the handlebar
- 2 Fastening on the brake or clutch lever

Method 1 – Fastening with bracket screw on the handlebar



- > Push the rubber protection over the bracket screw. This protects the handlebar against scratches.
- > If necessary: Shorten the rubber protection.

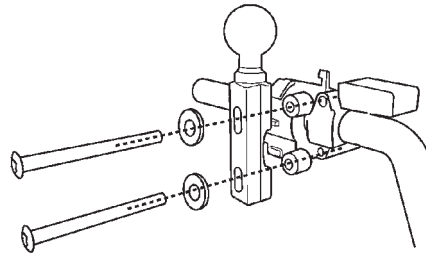


- > Push the bracket screw over the handlebar.
- > Put the square shaft with spherical head onto the ends of the bracket screw.
- > Insert the adapter between the bracket screw and handlebar. The bracket can then no longer slip.
- > Put on the washers and nuts.
- > Do not overtighten the nuts.

Method 2 – Fastening on the brake or clutch lever

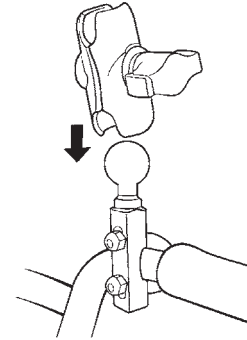
Notice:

The standard delivery includes screws with 1/4 inch thread and M6 thread. Use the screws whose thread size match the existing screws on the brake lever or clutch lever.



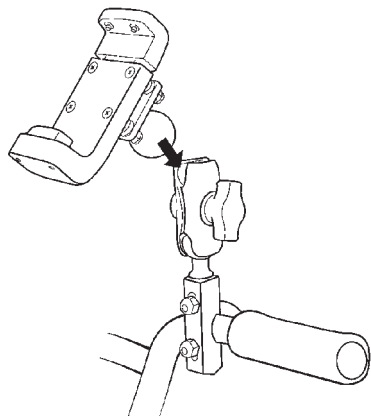
- > Remove the existing fastening screws from the clamping holder on the brake lever or clutch.
- > Screw the square shaft with spherical head onto the clamping holder. Use the screws, washers, spacers and nuts of the handlebar holder set for this purpose.

Mounting the device holder and connecting piece

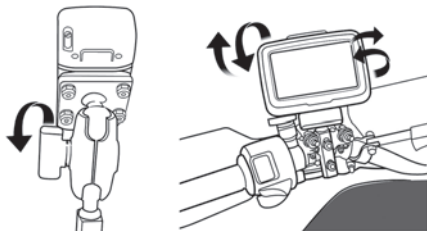


- > Place the connecting piece onto the spherical head.

INSTALLING NAVIGATION DEVICE



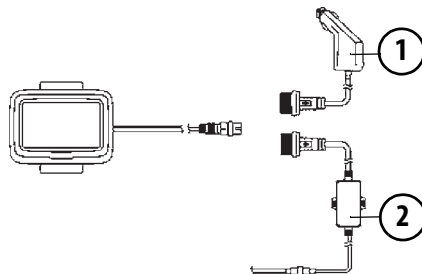
- > Place the spherical head on the device holder onto the connecting piece.
- > Tighten the handle only slightly.



- > Align the device holder to the optimum viewing angle and ease of operation. Adjust the device holder in such a way that driving safety is not impaired.

- > Tighten the handle to secure the device holder.

Connection diagram



- ① Vehicle charge cable
- ② DC-DC adapter (12V->5V)
Black: Negative terminal
Red: Positive terminal

Notice:

Connect the DC-DC adapter to a switched positive pole in the ignition circuit. Do not connect the cable directly to the battery terminals to avoid discharging of the battery.

Use the enclosed cable tie to lay the cable and electronic unit on the cable securely and tension free on the motorcycle.

The steering movement must not be impaired by the cable.

Installing vehicle device holder (optional)

The Navigationsgerät can be fastened directly to the windshield with the vehicle device holder.

Notice:

The Navigationsgerät and vehicle holder must not be exposed to direct sunlight for longer periods of time. Inside temperatures of +70 °C and higher could damage parts of the holder.

Notice:

Attach the device holder in such a way that it does not impair your vision with the mounted Navigationsgerät and is not within the sphere of action of the air-bag.

Make sure that the electrical connecting cable does not obstruct access to the operating controls of the vehicle.

Clean the mounting surface on the windshield so that it is clean and free of grease. Do not use any lubricating, soapy cleaning agents.

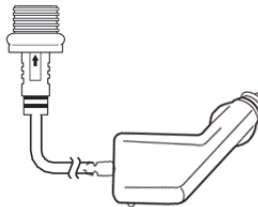


- > Remove the protective film from the suction foot.
- > Clean and dry the windshield and suction foot with a lint-free cloth.
- > Press the suction foot against the windshield and turn the locking disc clockwise at the same time.

Mounting the device holder and connecting piece

- > Place the connecting piece onto the spherical head.
- > Place the spherical head on the device holder onto the connecting piece.
- > Tighten the handle only slightly.
- > Align the device holder to the optimum viewing angle and ease of operation. Adjust the device holder in such a way that driving safety is not impaired.
- > Tighten the handle to secure the device holder.

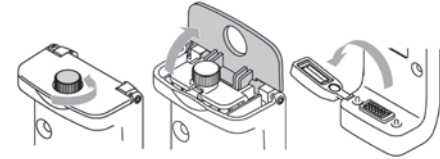
Connecting vehicle charge cable



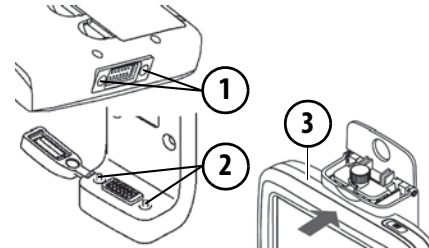
- > Connect the vehicle charge cable to the device holder.
- > Connect the other end of the vehicle charge cable to a current source in the vehicle.

Using the device holder

Inserting device into the device holder



- > Loosen the screw.
- > Open the flap.
- > Open the cover.



- > Make sure that the plug and coupler are dry and clean.
- > Place the device with the notches at the bottom of the device (1) onto the pins on the device holder (2).
- > Push the device into locking position (3).

INSTALLING NAVIGATION DEVICE

- > Make sure that the device is securely placed in the holder.



- > Close the flap.
- > Tighten the screw.

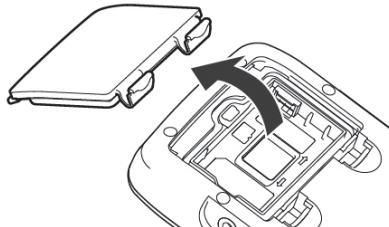
Removing device from the device holder



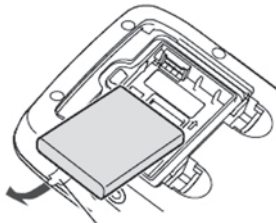
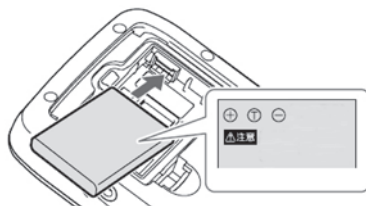
- > Loosen the screw.
- > Open the flap.
- > Remove the device.
- > Close the cover.

Inserting and removing the battery

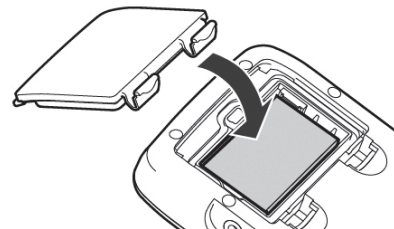
Make sure that the battery is inserted before operating the device.



- > Open the cover of the battery compartment.



- > Insert the battery or remove it. When the battery is inserted, the printing on the battery must be visible.

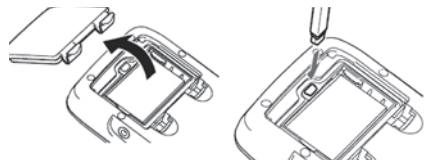


- > Close the cover of the battery compartment.

Charging the battery

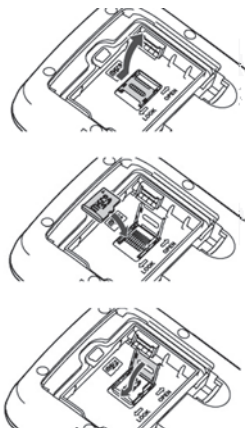
The battery is charged by the DC-DC adapter or vehicle charge cable during operation. The battery can also be charged using a mini USB power supply with at least 5 V/1.2 A.

The charging temperature is between 0 °C und 45 °C.



- > Open the cover of the battery compartment.
- > Connect the USB adapter to an electrical outlet.

Inserting an SD card (optional)



- > Open the cover of the battery compartment.
- > Remove the battery.
- > Open the cover of the SD card slot.
- > Insert the SD card into the SD card slot with the chip facing downwards.
- > Close the cover of the SD card slot.
- > Insert the battery.
- > Close the cover of the battery compartment.

Maintenance and care

The unit is maintenance-free.

For proper care, a commercially available cleansing fluid for electrical devices may be applied using a soft damp cloth.

Danger!

Danger to life by electrocution.
Always switch off the unit and disconnect the mains power supply unit before cleaning the unit, supplied components, or accessories.

Note:

Do not use any aggressive or abrasive substances or cloths which may damage the surface.

A micro-fibre cloth is particularly suitable for the display.

Your mobile navigation system was designed and manufactured with great care and should be treated with equal care. You will enjoy your mobile navigation system for a long time to come if you observe the recommendations listed in the following:

- Do not store your mobile navigation system in hot environments. High temperatures can shorten the service life of electronic components in your unit, damage the rechargeable batteries and cause certain plastics to warp or melt.

- Do not store your mobile navigation system in cold environments. During operation, when the unit warms up to operating temperature, moisture may form internally, causing damage to electronic components.
- Do not drop your mobile navigation system unit, protect it from shocks and do not shake it. Improper handling can damage components within the unit.
- Never use corrosive or aggressive chemicals, cleaning solutions or aggressive detergents for cleaning.

All the above information applies equally to the mobile navigation system, the rechargeable battery, the mains charging and car power adapters as well as all accessories. Should one of these parts not work properly, please contact your authorised dealer.

Battery quality declaration

The capacity of the rechargeable battery in your mobile navigation system decreases with every charging/discharging cycle. Improper storage at excessively high or low temperatures may also cause a gradual deterioration of capacity. Consequently, the operating time may be substantially reduced even in the case of a fully charged battery.

Display quality declaration

In some cases, for technical reasons, a few discoloured dots (pixels) may be visible on the display. Some pixels may also appear brighter or darker. However, such instances do not represent a product flaw.

Start-up

Once the Navigation device has been unpacked and checked for damage, the unit can be started up. The individual start-up steps are:

- connect to power supply.
- switching on the unit.
- ensuring antenna reception (if navigation is desired)

Power supply

Note:

You can charge your navigation device using the motorcycle charge cable included in the standard delivery or using the optionally available vehicle charge cable or power supply for the electrical outlet.

When the Navigation device is connected to a PC, it is supplied with power via the PC and does not consume battery power.

Using the battery

The internal power supply is via the integrated rechargeable battery. The rechargeable battery is maintenance-free and does not require any particular care.

You are alerted by a warning message when the battery should be recharged. After the alert, the device can still be used for approximately 10 minutes before switching off automatically.

Note:

Note that if the battery is completely discharged, it may take up to a minute before the device can be switched on again.

Note:

In the event of a defective battery, please contact your authorised dealer.

Connection for the cigarette lighter

Note:

If the cigarette lighter has recently been used and is still hot, wait until the lighter socket has cooled down.

Connect the power supply via the vehicle battery and the cable provided for the cigarette lighter as follows:

- > Grasp the connector of the connection cable and insert it gently without force into the connector socket of the navigation device up to the stop, or in the case of a device with an active cradle, on the underside of the supporting plate. (Model dependent, this step is not required on navigation devices with magnetic holders)
- > Insert the adapter into the cigarette lighter.

Note:

When the engine is switched off, the power supply slowly discharges the vehicle battery via the cigarette lighter! Do not therefore operate the Navigation device for long periods with the engine switched off.

The connection on the motorcycle is

described in chapter “Installing navigation device” on page 19.

GPS antenna

Unit antenna

The GPS antenna is integrated into the housing.

Note:

The integrated GPS antenna is not suitable for use in vehicles with anti-glare windows (metalised thermoglass or metal foil, indicated by the window label - SIGLA SOL, SIGLA CHROM, SIGLA, KOOL-OF, SUNGATE, etc.) and vehicles with fine-meshed heating wires in the windows.

Navigation device Switch on/off (depending on model)

With the button on the right-hand side of the device you can switch the device on, off or to the sleep mode.

Switching on

Press the button on the right-hand side of the device.

The unit is switched on. The manufacturer's logo appears on the touchscreen.



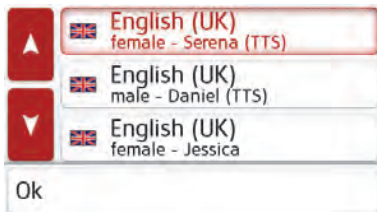
When the Navigation device is started for the first time, the language selection is displayed automatically.



Using the   buttons or the scroll wheel, it is possible to scroll through the list in the direction of the relevant arrow.

GENERAL OPERATION

- > Press the button for the required language.
- > The selection is confirmed by pressing **OK**.



- > Then select the desired voice.

Note: for models with TTS

Voices with a (TTS) tag support the text-to-speech function (e.g. announcing roads and reading out text messages).

- A short example announcement is given.
- > Confirm your selection by pressing the **OK** button.

The following prompt appears shortly afterwards:



If you agree to the request contained in this prompt, press the **OK** button.

Note:

Use of the Navigation device is only permitted in accordance with the national road traffic regulations applicable at the time.

Switching off (depending on model)

You can switch off the device at any time.

- > Press the button on the right-hand side of the device.

The Navigation device switches to sleep mode.

- > Press the switch on the right-hand side of the device for longer than 3 seconds to finally switch it off.

Note:

We recommend that you place the Navigation device in sleep mode in the event of short interruptions to operation (of up to a week).

This significantly reduces the switch-on time and the Navigation device finds the satellites required for navigation much faster.

If route guidance was active when sleep mode is activated, it is automatically resumed if the Navigation device is switched back on again within approx. 4 hours.

If the device cannot be switched off anymore or no longer works reliably, it is possible to switch off devices without I/O switches completely by pressing the button on the top for longer than 7 seconds.

Basic information about the touch screen

The Navigation device is fitted with a touch screen.

Note:

To ensure that the display's surface is not damaged, you may only touch it with your fingers or a blunt, non-smearing object.

Operation

When you touch a button on the touch screen, the button in question is briefly shown outlined in red to confirm the selection.

If you touch a button that is not active at the moment, a short signal tone sounds.

Calibration

If the touch screen starts responding imprecisely, calibration should be undertaken.

The calibration function is started from the  menu (see also page 101).

Basic information about the menus

During operations, you are assisted by various menus and entry windows.

The main menu

The top menu level is the main menu. The individual applications are started from the main menu.



You will find information about the individual applications in the corresponding main chapters. In addition to the individual applications, the main menu also contains further information and operating options.

You can tell whether a telephone is already connected by the symbol on the **Phone** button.



①



②

① Telephone connected

② Telephone not connected

A satellite symbol at the right of the status line shows you whether there is currently GPS reception or not.



①

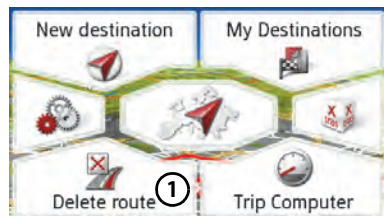


②

① GPS reception

② No GPS reception

If route guidance is already active, the current destination address and a button for cancelling route guidance will be displayed between the two rows of buttons.

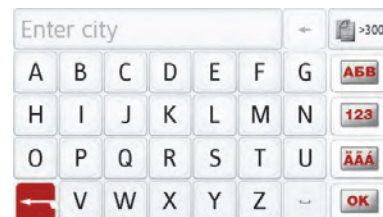


Press the button ① to cancel route guidance to the displayed destination directly in the main menu.

Entries made with the entry menu

Some applications require entries to be made via the entry menu. The entry menu is operated in a similar way to a keypad.

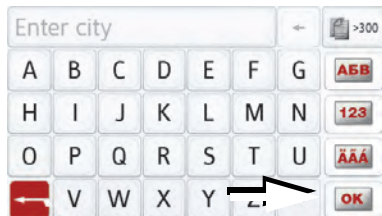
The keyboard layout can be switched between ABC and QWERTZ, see page "Keyboard layout" on page 100



The character entered on the keypad is displayed in the top line of the entry menu. The central area is used to enter characters. Help functions are provided in the right line. Descriptions of how to operate the menu are provided below.

Entering characters

Characters are entered by pressing the keys in the central area.

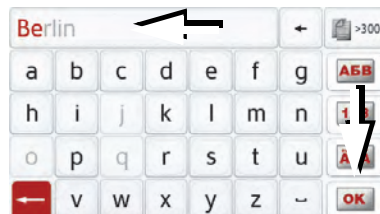


Once the entry is complete, the process is concluded by pressing the **OK** key and the entry passed on to the Navigation device for processing. When a navigation destination is entered, the Navigation device compares the data with the stored data. Only those letters that are still possible area available for selection. Characters that cannot be selected are displayed greyed out.

Accepting proposals

During entry, the Navigation device makes proposals in the uppermost line. The proposals take into account your usage habits. For example, if you enter the city of Hamburg often, then after you enter the letter "H" the proposal "Hamburg" is automatically displayed.

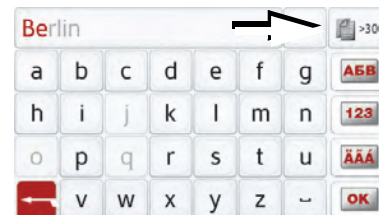
If no preferences are known for the letter entered, then cities/locations suitable for the entry are displayed as proposals.



To accept the proposal, you may press either the input field or the **OK** button.

Scrolling through the lists

If you have already entered some of the letters of the selection you want, you can use the selection list to display all the destinations containing the combination of letters in question.



To call up the selection list, press the **>300** key.

Note:

The quantity of selection options is displayed in the form of the number on the button. When there are more than 300 options, the precise number is not displayed.

In the list, all the entries corresponding to the letters already entered are displayed. The letters entered are coloured red in the case of the individual entries.

GENERAL OPERATION

The selection list appears.



Press the   arrow keys on the right hand side of the screen to scroll through the list.

> Press the destination you want.

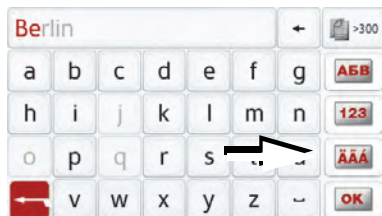
The destination is adopted and the selection list is closed.

Special characters and accent marks

Special characters and accent marks do not have to be used when entering the names of towns and streets. The Navigation device will change entries from AE, OE and UE if necessary.

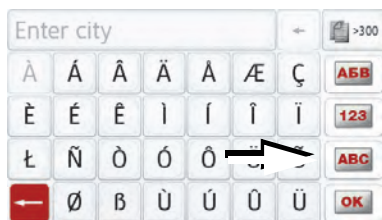
> If, for example, you are looking for the location "Würzburg", then simply press "WUERZBURG" or "WURZBURG".

Special characters can be useful when naming destinations and routes.



In order to switch to the special characters keyboard, press the button marked with an arrow.

The special characters keyboard is displayed.



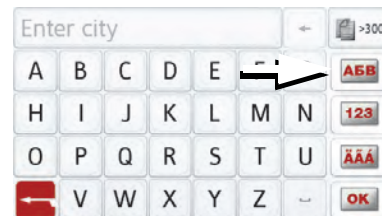
Enter the desired special character.

After you enter a character, the Navigation device automatically switches to the normal input menu.

To exit the special character keypad without an entry, press the button marked with the arrow.

Other character sets

Different character sets can be selected for the keyboard of the Navigation device.



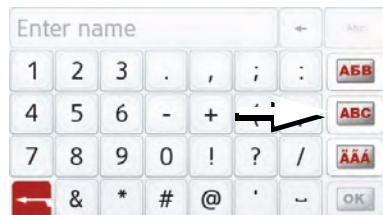
Press the button marked with an arrow repeatedly until the desired character set is selected.

Entering numbers

Switch to the numbers keyboard in order to enter figures.

> Press the **123** button.

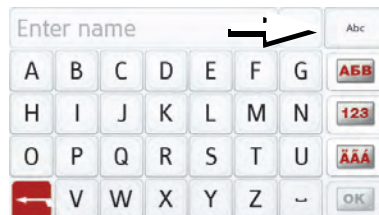
The numbers keyboard is displayed.



In order to return again to the keyboard for entering letters, press the button marked with an arrow.

Switching between upper and lower case:

During free text entry, it is possible to switch between upper/lower case and the automatic function.



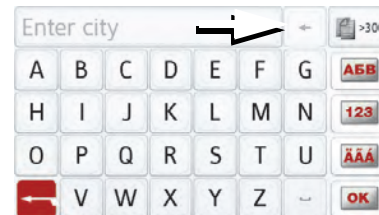
Press repeatedly on the button in the top right-hand corner of the display until the desired method of entry is activated.

The inscription on the button symbolises the method of entry.

- The **Abc** button represents automatic mode. This means that, on entry, the first letter is automatically in upper case and subsequently changes automatically to lower case.
- The **ABC** button represents the entry of upper case letters.
- The **abc** button represents the entry of lower case letters.

Deleting characters

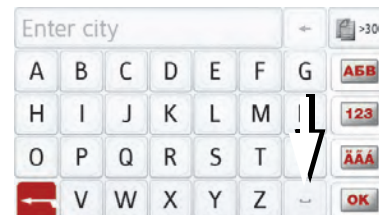
To delete the last character, use the back key.



To delete the character to the left of the cursor, press the **←** key.

Inserting spaces

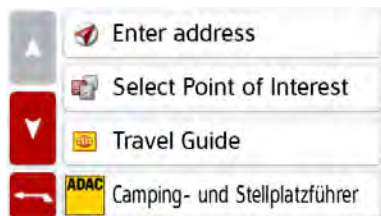
If you have an entry with two words, e.g. for names of towns, the words should be separated by a space.



To enter a space, press the **_** key.

The back button

The  button is located on the bottom left of the device.



It has various functions:

- Depending on the menu context, if pressed briefly, you will be returned to the previous entry level.
- The main menu is displayed by pressing and holding the button.

Content Manager

The Content Manager is a PC-based application containing a number of important functions to help you manage the content on your Navigation device.

With the Content Manager you can:

- back up the content saved on the Navigation device to your PC and restore it later to your Navigation device,
- download current content from the Internet and install it on the Navigation device.

To use the Content Manager, you will need the USB cable provided as well as a computer that meets the following minimum requirements:

	Minimum
Operating system	Windows
Processor	300 MHz clock frequency
Main memory	256 MB
Free storage space	6 GB

Installing the Content Manager

You can install the Content Manager on your computer with the following steps:

- > Switch the navigation device completely off, see "Navigation device Switch on/off (depending on model)" on page 27.
- > Connect the USB interface of the device directly to a USB port of the computer using the USB cable supplied.
- > Switch on the navigation device.
- > If the application does not start automatically, please start the file "CONTENT-MANAGER" manually in the folder "Becker_Content_Manager_Setup".
- > Select a language from the list and then click on **OK**.
- > Read the welcome page and click on **Next** to continue.
- > Select the installation folder. A default installation folder is already specified. To select another folder, either type in the path name or click on **Browse** and define another folder.

> Click on **Install** to start the copying procedure. Click on **Details** to see the details during copying.

The Content Manager is automatically started immediately after installation. Remove the check mark from the box if you do not want this.

This completes the installation procedure.

> Click on **Finish** to exit the installation program.

Starting the Content Manager

Execute the following actions to start the Content Manager:

> Switch the navigation device completely off, see "Navigation device Switch on/off (depending on model)" on page 27.

> Connect the USB interface of the device directly to a USB port of the computer using the USB cable supplied.

Switch on the Navigation device.

Note:

When you connect the Becker Navigation device to the PC for the first time, the PC installs all the necessary drivers and then displays the message "Your unit is now ready to use".

After a short time, the Navigation device is displayed as a removable storage medium on the computer.

> Click on **Start > All Programs** on the computer.

> Select **Becker**.

> Click on **Content Manager**.

When the Content Manager is started, the program executes a number of steps before you can start to manage your navigation software content.

Each time the program is called, a connection is established to the Internet to check whether a new version of the ContentManager is available. If a new software version is found, the Content Manager gives you the option of installing it. We recommend that you always agree to the upgrade, if one is available. If a new software version is found, you have the following options:

- Click on **Yes** to accept the new software version. The new version is downloaded and installed before you can start the Content Manager.

- Click on **No** to start the Content Manager with the version already installed.
- If the new version is a critical update, the **Exit** button will be shown instead of the **No** button. You must install the new version, otherwise you have to exit the application.

If you have not yet made a backup of the navigation unit, the Content Manager will ask you each time it starts whether you would like to make a complete or partial backup copy.

Note:

We recommend that you always create the backup. Otherwise you will not be able to restore the content in the event of loss of data.

Transferring pictures

Pictures can be saved on a separate micro SD memory card (not included in the standard delivery) or in the internal memory of the Navigation device in the "Media" folder.

Note:

Switch off the navigation device completely, see "Navigation device Switch on/off (depending on model)" on page 27, before connecting the navigation device to the computer.

We recommend that you give files and directories self-explanatory names so that it is simpler to find these again, if needed.

Faults

Malfunctions in the operating system or in the unit are displayed accordingly. If the desired function cannot be performed, you should restart the Navigation device by removing the battery briefly and then insert it again.

If the messages reappear or the unit does not function correctly for any other reason, please contact your local dealer. You can also try to find a solution to your problem in the FAQ in the Support area on the Becker homepage (www.mybecker.com).

Note:

Never attempt to open the unit yourself. Please contact your authorised dealer if you are unable to remedy the fault.

What is navigation?

The term "navigation" (lat. navigare = to travel by sea) is generally understood to mean the determination of a vehicle's location, the determination of its direction and its distance from the desired destination and the required route to get there. Stars, prominent landmarks, compasses and satellites etc. are used as navigation tools.

With the Navigationsgerät, the location is determined by the GPS receiver. The **Global Positioning System** (GPS) was developed during the 1970s by the US military as a weapons guiding system.

GPS is based on a total of 24 satellites which orbit the Earth and transmit signals. A GPS receiver receives these signals and calculates its distance to the individual satellites based on the signal travel times, and then determines your current geographical position.

Signals from at least three satellites are required to determine your position; your height above sea level can be calculated if signals are received from four or more satellites.

The Navigationsgerät determines the direction and distance from the destination using a navigation computer and a digital street map held in its internal memory.

For safety reasons, route guidance **is given predominantly in spoken form.** This is supported by a direction indicator and a map display on the touch screen.

Safety instructions

- Road traffic regulations always take priority. The navigation system is merely an aid, data/information may in select cases be incorrect. The driver must decide in each situation by him- or herself if he or she will follow the directions.
No liability will be assumed for incorrect directions provided by the navigation system.
- When first put into use it can take up to 30 minutes to fix the position.
- Observation of traffic signs and local traffic regulations must always take priority.
- The traffic routing is only related to passenger cars and motorcycles. Special driving recommendations and regulations for other vehicles (e.g. commercial vehicles) are not taken into account.
- Destinations may only be entered when the vehicle is stationary.

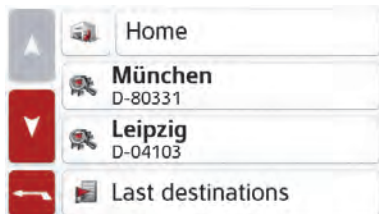
Selecting Navigation

Navigation mode is called up from the main menu. New destinations can be entered in the menu "**New destination**". Destinations that have already been visited or saved can be selected in the menu **My destinations**.

> In the main menu, press the button **My destinations**.

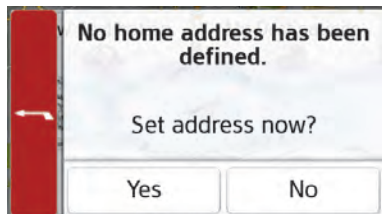
Note:

If an address is displayed in the lower edge of the main menu, this means that route guidance has already been started to the displayed address.



Home address

When you press the **Home** button you will be asked to enter an address if no home address has yet been entered.



> Press the **Yes** to enter the address. You can then enter a destination as described under „The New destination menu“ on page 45.

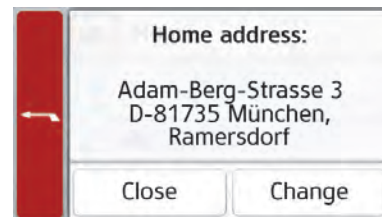
Note:

The menu items **Set current position** and **Select from last destinations** (fast access mode) can also be used to select a destination.

If you have already entered your home address, you can start route guidance to your home address in the first line.

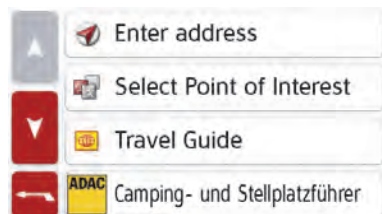
A home address once entered can be modified later.

In the "**My destinations**" menu, next to the **Home** option press the  button.



> Press the **Change** button to enter a new home address.

The menu for selecting the destination appears.



Here you can set the new home address for example using an intelligent text entry field.

Smart Guess

The two addresses that can be selected with the button,  is a selection of the addresses last visited. Depending on the time of day and your current position, the two most likely destinations are displayed and can be selected directly.

Last destinations list

The last destinations visited and saved destinations are displayed in the Last destinations list and can be selected directly. The menu for entering destinations can also be called up using the fast access function.

The destination list

The destination list displays, line by line, all destinations available for fast dialling. Each line of the destination list is divided into two fields. Each list field is designed as a button. The destination is shown on the right-hand button and the properties of the destination are displayed using the left icon.

Note:

Up to 200 of the most recent destinations are automatically stored in the destination list. If the storage capacity is reached, the oldest destination in the list is automatically deleted to make room for each new destination. However, important destinations may be protected. If you select your home address and it has not yet been defined, you will be requested to enter the address.

Icons used

The following icons are used in the destination list:

Icon	Meaning
	This destination is a standard destination with no special features.
	This destination is protected. If the destination memory is full, this destination will not automatically be deleted. This can be performed manually, if required. In the case of a protected entry, you can also determine the position using the fast access function.

Operating the last destinations list

Start with existing destination

The existing destinations are listed in the destinations list.

> Press the button for the desired destination to start route calculation.

The calculation begins.

When the calculation is complete, the map appears and the route guidance begins.

Scrolling through stored destinations

Using the   buttons or the scroll wheel, it is possible to scroll through the list.

Displaying or editing a destination

Any destination stored in fast access mode can be displayed and edited.

> Press the button to the left of the desired destination.

> A selection menu appears.

Option	Meaning
Show details	The data for the destination are displayed. From this screen you can display the destination on the map, display the route or start the route guidance.
Name entry	The destination can be renamed. If the destination is given a name it is automatically protected.
Protect entry	The destination is protected from automatic deletion. This function is only available for unprotected destinations.

Option	Meaning
Remove protection	The protection is removed from the destination. This function is only available for protected destinations.
Move up	The destination is moved forwards by one position. If the destination is moved it is automatically protected.
Move down	The destination is moved back by one position. If the destination is moved it is automatically protected.
Delete entry	The destination is deleted from the fast access mode.
Delete all entries	All destinations (except for the protected destinations and your home address) are deleted from the list.

Personal destinations

Using the **Personal destinations** button you can call up Google™ points of interest that have been imported into the Navigationsgerät and start route guidance to one.

- See “Selecting a destination from Personal destinations” on page 41.

Contacts

Using the **Contacts** button you can call up Microsoft® Outlook® contacts that have been imported into the Navigationsgerät and start route guidance to the address listed in the contact.

- See “Selecting a destination from Contacts” on page 42.

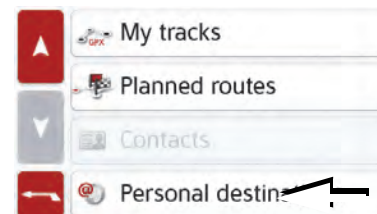
Selecting a destination from Personal destinations

You can call up Google™ points of interest that have been imported into the Navigationsgerät and start route guidance to one.

Note:

To display custom Google™ points of interest, the Google™ KML files must be stored in the **Navigators\content\userdata\mydest** directory of the Navigationsgerät.

- > In the main menu, press the button **My destinations**.



- > Press the **Personal destinations** button.

A list of the available destinations will be displayed.

Using the   buttons or the scroll wheel, it is possible to scroll through the list.

Note:

If the list contains numerous entries, it may be a good idea to search for the desired destination by selecting **Search entry** and using the input menu.

A maximum of 1000 destinations can be imported.

Newly imported destinations are filed at the start of the list.

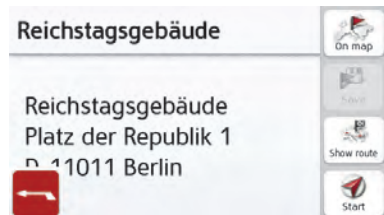
> Select the desired destination.
Route guidance to the selected destination will be initiated.

Editing Personal destinations

> In the list of your own destinations, press the  button in front of the destination that you wish to edit.

Select **Delete entry** if you wish to delete the destination from the list. Select **Delete all entries** if you wish to delete the entire list.

Select **Show details** if you wish to display details about the destination.



Press the **Start** button to begin route guidance to the destination straight away.

You can also display the selected destination in the map (**On map**), save in the Rapid access (**Save**), or display the route to the destination (**Display route**).

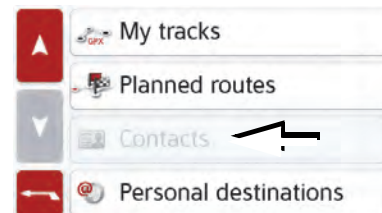
Selecting a destination from Contacts

You can call up Microsoft® Outlook® contacts that have been imported into the Navigationsgerät and start route guidance to one.

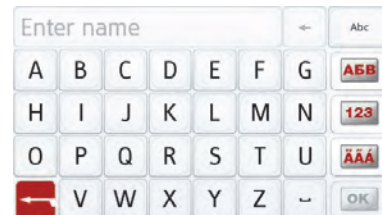
Note:

The Microsoft® Outlook® contacts are imported via the Content Manager.

> In the main menu, press the button **My destinations**.



> Press the **Contacts** button.



> An input menu appears if there are

more than 10 contacts. If there are fewer than 10 entries, a list of contacts is displayed straight away.

> In the input menu, select the first letters of the entry you are looking for.

> Press the **OK** button when the name you want is displayed in the top line.

If there are 5 or fewer entries available with the letter combination entered, a list containing these entries will automatically be displayed.

Note:

You may also first have a list displayed that corresponds to the letter combination entered. For this purpose, press the  button in the input menu.

> Select the desired entry in the list.



> Press the **Start** button to begin route guidance to the address displayed for this contact straight away.

You can also display the shown address of the contact on the map (**On Map**), save it in the Rapid access (**Save**), or display the route to the destination (**Display route**).

If there are a number of addresses provided for the chosen contact, you can select one of them after pressing the button ①.

If there are a number of phone numbers provided for the chosen contact, you can select one of them after pressing the button ②.

My Tracks

You can start off from self-recorded tracks as well as from GPX tracks that you have imported to the device.

Furthermore, you can calculate a route to the start point or to the nearest point on the track.

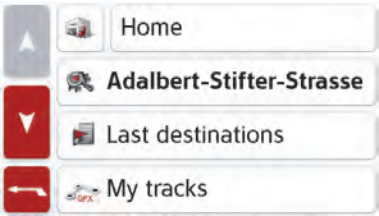
Chapter Unbekannte Quelle des Querverweises describes how to record GPX tracks.

Note:

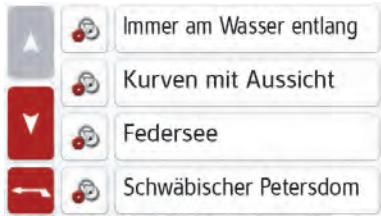
To import tracks, the files in the **Navigator\content\userdata\track** directory of the navigation device have to be stored. GPX track format is supported. GPX Waypoint and GPX Route formats are not supported by the navigation device.

The GPX files are converted to a device-specific format the next time the device is started. Since this conversion may take several minutes depending on the size of the GPX tracks, you should not copy more than 20 tracks to your device at once in order to prevent unnecessarily long start times.

> In the main menu, press the button **My Destinations**.



- > In the main menu, press the button **My Tracks**.
- > A list with the existing tracks is displayed. This list includes the tracks you have recorded as well as the imported GPX tracks.



- > Select a track from the list. You can then either calculate a route to the start point of the track or to the nearest point of the track.
- Afterwards, you will first be guided to the start point that was selected by you. Once you have reached the track, it will be displayed for you by a flag on the map.

Note:

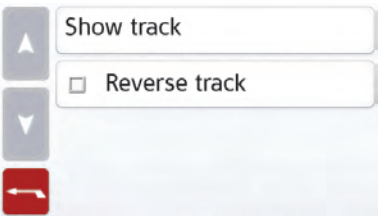
When starting off from recorded tracks, it is best to set the "Fast route" option. Other routes might lead to undesirable side effects.

Some functions, such as "Alternative routes", are not available when starting off from tracks.

My Tracks Extra Functions

Additional extra functions are available for each track in the list

- > Select the button.
- > A selection menu appears.



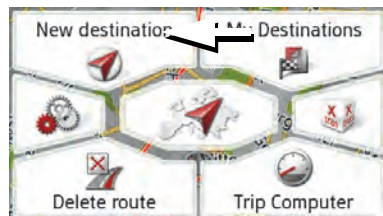
Selection	Meaning
Rename Track	The track can be renamed.
Delete track	The track is deleted from the list

Selection	Meaning
Show track	The track is displayed on a map as a blue line
Reverse track	The direction of travel of the track is reversed, the track is then started out from the opposite recorded direction
Export as GPX Track	The track is converted to .gpx format (GPX track) and saved in the directory Export\GPX\

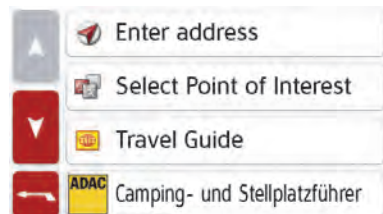
Note:

Some tracks cannot be reversed in a practical way. If, for example, one-way streets or motorway sections are contained in the track, these can only be started out from in the prescribed direction, of course. Some tracks are therefore no longer appropriate in the opposite direction. An indication of this can be a track which is significantly longer after the reversal than the original direction.

The New destination menu



> In the main menu, press the button **New destination**.
The menu for new destinations appears.



Layout of the New destination menu

Enter address

The various steps from selecting an address to starting route guidance can be carried out using the **Enter address** button.

- See “Entering the address” on page 46.

Select Point of Interest

Points of interest such as airports and ferryports, restaurants, hotels, petrol stations or public buildings can be selected and route guidance started using the **Select Point of Interest** button.

- See “Points of interest” on page 51.

Travel Guide (model dependent)

With the travel guide, you can select, for example, MARCO POLO Top-Highlights or MARCO POLO Insider Tips and start the guide destination there. See “Travel Guide (model dependent)” on page 55.

Select on map

With the button **Select on map**, you can select a destination directly on the map and start route guidance.

- See “Selecting a destination from the map” on page 56.

Enter geo-coordinates

The geographic coordinates for a destination can be entered and route guidance started via the **Enter geo-coordinates** button.

- See “Coordinate entry” on page 57.

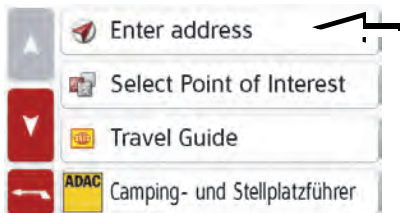
Route planning

A route with several waypoints can be planned using the **Route planning** button.

- See “Route planning” on page 57.

Entering the address

The **Enter address** button in the destination input menu opens the menu for entering addresses.



> In the destination input menu, press the **Enter address** button. The menu for entering addresses appears.

Note:

By pressing the **Clear form** button (top right) you can delete all entered data apart from the country.

Selecting a country

You can select a country from those available using the button for the country of destination. A country is adopted automatically in the address input menu after selection. If a country of destination has already been entered it will remain until you select a different country.

> Press the button containing the country of destination to access the country selection list. The selection list appears.

> Press the button for the desired country.

Note:

If required, press the arrow keys or use the scroll wheel on the right of the screen to scroll through all available countries of destination. The symbol indicates the countries for which an address can be entered using speech. (depending on the model)

Selecting an address and starting route guidance

You can enter the exact destination address in the address input menu.

The screenshot shows a navigation interface with the following elements:

- A text input field containing "Germany".
- A "Clear form" button with a red 'X' icon.
- Two input fields for "City" and "Code".
- Two input fields for "Street" and "No.".
- A "Save" button with a floppy disk icon.
- A "Show route" button with a map icon.
- A "Start" button with a green arrow icon.
- A red button with a white left arrow.
- A "Select POI" button with a magnifying glass icon.

The following settings can be made in the address input menu:

- Town
- Zip code (or postal code)
- Street and house number
- Junctions as an orientation aid

It is also possible to:

- search for a point of interest near to the address entered (**POI search**). This can be entered as described under „Point of interest near to an address“ on page 53.
- save the destination in fast access mode,
- show the route on the map. For details please see page 81.

- start the route guidance straight away.

Selecting a town

The destination can be entered by either using the name or ZIP code.

When you enter the letters of a place, the navigation device displays suggestions (See "Accepting proposals" on page 31). If you do not want to accept the proposal, just enter the other letters of the location you want.

The Navigationsgerät excludes all impossible letter combinations and ZIP codes and activates only letter fields or numerical fields that lead to an existing location or ZIP code.

- > Select the option of entering the town or postcode.

The screenshot shows a navigation interface with the following elements:

- A text input field containing "Berlin".
- A red button with a white left arrow.
- A button with a magnifying glass icon and ">300".
- A grid of buttons for letters a-z and numbers 1-9.
- A button with "A-Z".
- A button with "1-9".
- A button with "A-A".
- A button with "OK".

- > Enter the letters of the destination town or the numbers of the postcode consecutively.

Note:

If two words need to be entered you must separate them with the character



When sufficient letters have been entered it will automatically switch to a list from which you can select the town. However, you can switch to the list before this by pressing the  button.

Note:

If you have entered a postcode, the name of the town will be hidden in the input menu to start with. If you then enter the street name, the name of the town will then also be displayed.

Using the town list

Once a few letters of the desired town have been entered you can display a list of all the towns with the relevant letter combinations or this list will be displayed automatically.

> Press the  button on the right of the screen to call up the list.

>



Using the   buttons or the scroll wheel, it is possible to scroll through the list.

> Press the button for the required town.

Selecting the street

In the **Street** menu field the street and house number can be entered separately using a letter and number field.

The Navigationsgerät excludes all impossible letter combinations and activates only those letters that could give an existing street name.

A house number can only be chosen once the street has been selected and if house numbers are included in the data.

> Enter the letters of the destination street consecutively.

When sufficient letters have been entered it will automatically switch to a list from which you can select the street. However, you can switch to the list before this by pressing the  button.

Using the street list

Once a few letters of the desired street have been entered you can display a list of all the streets with the relevant letter combinations or this list will be displayed automatically.

> Press the  button on the right of the screen to call up the street list.

>



You can scroll through the displayed list using the   buttons.

> Press the button for the desired street.

Selecting the Intersection

After entering the destination town and street, you can enter a junction so as to further limit the choice.

Note:

Instead of entering a junction, you can also enter a house number. However, it is not possible to enter both at the same time.

> Press the **Intersection** button.

The input menu for the name of the junction will appear.

> Enter the name of the junction.

Once a few letters of the desired street have been entered a list will automatically be displayed.

> Press the button for the desired street.

Selecting a house number

After entering the destination town and street, you can enter a house number so as to further limit the choice.

Note:

Instead of entering the house number, you can also enter a junction. However, it is not possible to enter both at the same time.

> Press the **No.** button.

The input menu for the house number will appear.

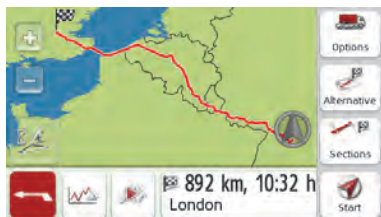
> Enter the house number and then press the  button.

Displaying the route

Once the address has been entered, the address input menu allows the route to the destination to be displayed on the map.

> Press the **Show route** button to display the route on the map.

The route is calculated.



You can start the route guidance directly from this screen using the **Start** button.

The other options on this screen are described under „Displaying the whole route“ on page 81.

Storing a destination

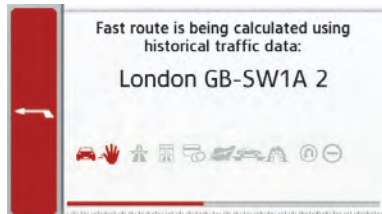
In the address input menu, the **Save** button opens a menu where a name can be entered for the specified destination. If the desired name has been entered and **OK** has been pressed to accept it, the destination is transferred to fast access mode and protected.

Starting navigation

The **Start** button starts the route guidance.

All data entered thus far is processed when calculating the route.

> Press **Start** to start the route guidance.

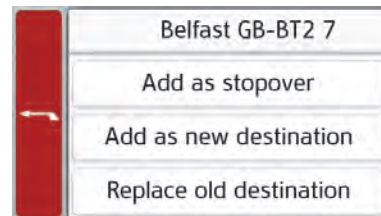


The route is calculated. The map will then be displayed and the route guidance will begin.

Note:

The symbols above the progress bar refer to restrictions that you may have activated (e.g. unpaved roads, toll roads).

If the route guidance is already running you will be asked whether the new destination should replace the old destination or if the new destination should be regarded as a waypoint.



> Select between **Add as stopover**, **Add as new destination** or **Replace old destination**.

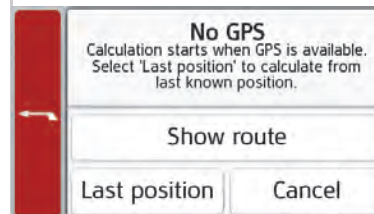
If the route guidance is already running and a waypoint has already been entered you will be asked whether the new destination should replace the old destination or the waypoint.



> Select **Replace stopover** or **Replace old destination**.

Note:

If there is no GPS signal when the route is calculated, the following will be displayed:



When a GPS signal is available, the route calculation will start automatically.

When the **Last position** button is pressed, the last known position is used and the route calculated from this position.

Points of interest

Points of interest (POI) are included in the map and can be displayed there. Points of interest include airports and ferry ports, restaurants, hotels, petrol stations, public buildings. You can use points of interests as navigation destinations.

Note:

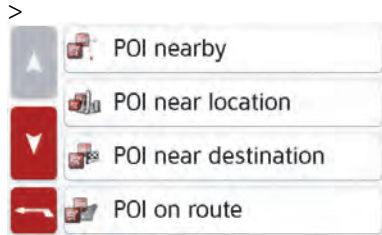
You can only select points of interest in the area in question if the GPS reception is adequate for determining a position. Otherwise, the last position stored will be used.

You can extend the places of interest stored on the device by installing additional POIs in KML format on your device via the Content Manager.

> In the main menu, press the button **New destination.**



> Press the **Select Point of Interest** button.

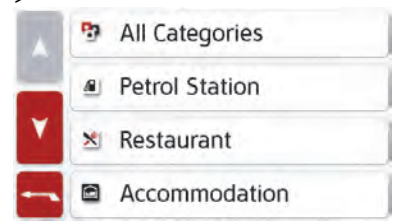


You can choose between:

- a point of interest in the vicinity,
- a point of interest near to an address,
- a point of interest near to a destination,
- a point of interest along the route or
- entering a point of interest directly.

Point of interest in the vicinity

> Press the **POI nearby** button.



Press the arrow keys   or use the scroll wheel to scroll through the list displayed.

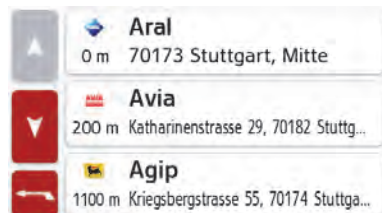
> Select one of the available categories.

Note:

You can also press the **All categories** button. An input menu will then open and you can enter the name of a point of interest directly and confirm it.

For some categories, e.g. petrol stations, a further selection menu is displayed in which you can narrow down the choice further, e.g. by brand.

If you have selected the category, any points of interest belonging to the relevant category and available within the area in question will now be displayed.



The name, distance as the crow flies and the address is displayed for each entry.

> Select the desired point of interest.



You will now receive additional information about your chosen destination.

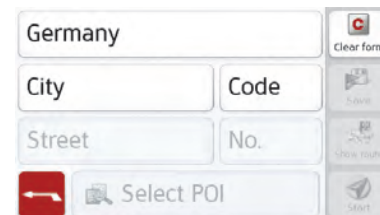
> Press the **Start** button to begin route guidance to the point of interest directly.

In addition, the selected point of interest can be:

- displayed on the map (**On map**),
- saved in fast access mode (**Save**),
- used for displaying a route to the POI (**Show route**),

Point of interest near to an address

> Press **POI** near location.



> Select the desired country.

> In the **City** or **Code** field, enter the town where you wish to search for a point of interest.

Note:

If you have already entered an address, this address will appear by default.

> Press the **Select category** button.

The available Points of interest categories for the city entered will be displayed.

> Select the desired point of interest as described under „Point of interest in the vicinity“ on page 52.

Germany		
Berlin	10117	
Street	No.	
Select POI		

> Press the **Start** button to begin route guidance to the point of interest directly.

However, you can also store your chosen point of interest in fast access mode (**Save**) or display the route to the point of interest (**Show route**).

Note:

You can also press the **Select Point of Interest** button. An input menu will then open and you can enter the name of a point of interest directly and confirm it.

By pressing of the button next to the selected POI, you can display the additionally available information for the destination.

Point of interest near to destination

> Press the **POI near destination** button.

	All Categories
	Petrol Station
	Restaurant
	Accommodation

The categories available near to the destination are displayed.

> Select the desired point of interest as described under „Point of interest in the vicinity“ on page 52.

POI on route

> Press the **POI on route** button

The available Point of Interest categories available on the whole route will be displayed.

> Select the desired point of interest on the route as described under „Point of interest in the vicinity“ on page 52.

Entering a point of interest directly

> Press the **POI search by name** button.
>

Enter POI name										
A	B	C	D	E	F	G				
H	I	J	K	L	M	N				
O	P	Q	R	S	T	U				
	V	W	X	Y	Z					

> Enter the desired point of interest or part of the name.

> Press the button.

The Navigationsgerät displays in a list all the points of interest corresponding to the name entered.

> Select the desired destination in the list.

>

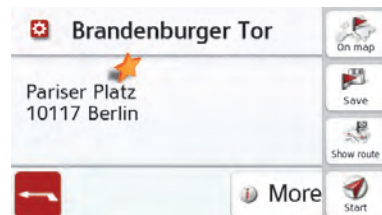
Aral	
70173 Stuttgart, Mitte	

You will now receive additional information about your chosen destination.

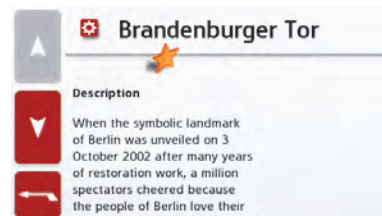
> Press the **Start** to begin route guidance to the point of interest straight away. However, you can also display your chosen point of interest on the map (**On map**), store it in fast access mode (**Save**) or display the route to the point of interest (**Show route**).

Additional point of interest information

Any additional information that is provided for a point of interest can also be displayed.



To display the additional information, press the **More** button shown at the bottom of the point of interest information screen.



You can scroll through the displayed text using the arrow buttons or the scroll wheel.

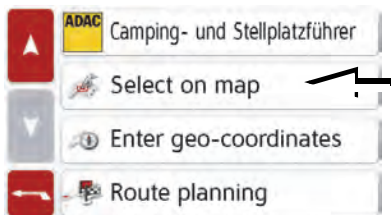
Travel Guide (model dependent)

The Travel Guide acts in a similar fashion to the "Enter point of interest" function (see also page 45).

The Travel Guide for Berlin is already pre-installed. All travel guides are available in 5 languages (D, E, I, S, F). Other languages are represented in English. Additional cities can be purchased from the ContentManager (see also page 34).

Selecting a destination from the map

You may also select a destination directly from the displayed map.



> Press the **Select on map** button.
The map display appears.

Note:

You may need to make the area larger using the zoom buttons  and  in order to find the desired point. You can also move the map to the desired point.

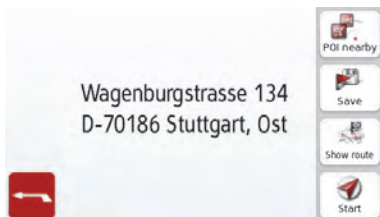


> Press the desired point lightly on the surface of the screen.
A flashing red cross will be displayed at this point.

Note:

By pressing the **GPS Position** you can display your current position again.

> Press the **Select** button.



> Where available, the address of your chosen point is displayed.
> Press the **Start** button to begin route guidance to the destination straight away.

You can also search for points of interest in the vicinity of your chosen point using the POI nearby button.

However, you can also store your chosen point in fast access mode (**Save**) or display the route to the point of interest (**Show route**).

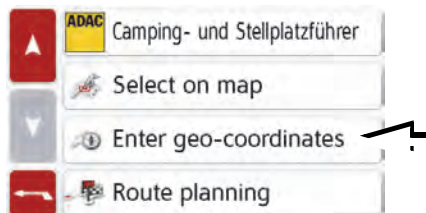
You can select a new destination by touching the map even during the route guidance in progress, in order to insert a stopover or to replace the old destination. When touching the display, a compass appears with arrows to adjust the horizontal display and the vertical display angle of the map. This function is described on Seite 78.

Coordinate entry

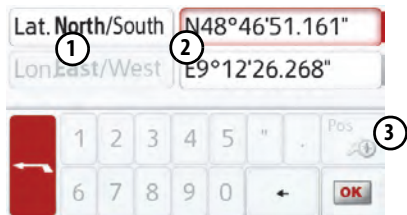
You can also enter your destination using geographic coordinates.

> In the main menu, press the button

New destination.



> Press **Enter geo-coordinates.**



> Using ② select the value you wish to change.

> Using the two buttons indicated by ① select the direction required for the geographic longitude and latitude (east/west or north/south).

> Then enter the desired values using the buttons **1** to **0**.

The entry field at the beginning may be displayed greyed out. Delete any entries in the field with the backspace button, in order to use the entry field. You can enter coordinates in three different ways.

The following formats can be used:

- Degrees Minutes Seconds.Decimal seconds e.g. 42°52'46.801"
- Degrees Minutes.Decimal minutes e.g. 48° 53.56667'
- Decimal degrees e.g. 48.89277778

Notes:

- The coordinates entered must correspond to WGS84 (World Geodetic System 1984).
- If you press button ③ your current geographic position will be entered into the fields.

> Press the **OK** button.

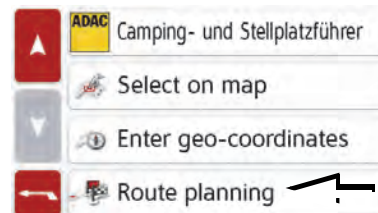
Where possible, an address matching the coordinates will be displayed. You can view the destination on the map, store it, display the route to the destination or start the route guidance straight away.

Route planning

The route planning menu allows you to create and select individual routes. To do this, enter the individual destination points for the desired route. It is then possible to travel to these points consecutively without having to enter any further information. You can also optimise the destination points entered and in so doing change their order.

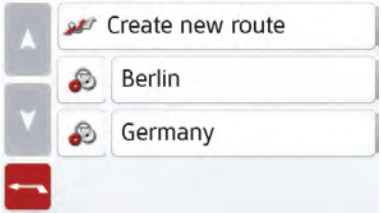
> In the main menu, press the button

New destination.



> Press the **Route planning** button.

In the route menu you can create a new route by pressing the **Create new route** button. Previously stored routes are shown in a list below this.



Note:
If no routes have yet been stored, the route menu is empty.

Scrolling through stored routes
> Press the arrow keys   or use the scroll wheel on the right of the screen to scroll through the stored routes.

Editing stored routes
You can add additional stages to a stored route, change the name of the route or delete it.
> Press the  button in front of the route you wish to edit.

By pressing **Add stage** you can now add a stage to the route.
After pressing **Rename route** you can give the route a new name.
Pressing **Delete route** will allow you to delete the route from the stored routes.

Selecting and starting a route
> Press a route to select it.
The route is loaded and displayed in the stage menu.



Press the top button.
Note:
You can also select a leg of the route.
The route is started as of this leg.



> Select the start point or your current position as the start point for route guidance.

Note:
If a start point is selected, this is only used to view a route.

The individual stages are calculated.
A map of the stages will then be displayed.



> Press the **Start** button to start guidance for this route.
You can call up the route options using the **Options** button.

Simulation of the route

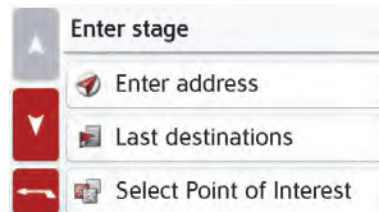
There is a play button  on the left under the map, used to start a simulation of the route.

If you touch the display after starting, a control bar is displayed at the top with control buttons for the simulation. You can pause the simulation with the  button, and continue it with the  button. The  button allows you to fast forward the simulation by a 16x speed. You can move from route section to route section with the  and  buttons.

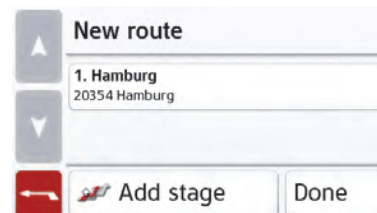
If there is no further action, the control bar disappears after a few seconds.

Creating a new route

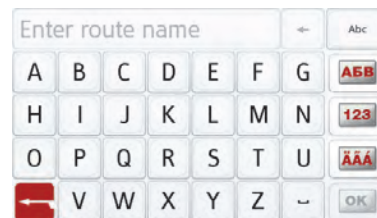
> Drücken Sie in der Routenplanung die Taste **Create new route**.



- > You can now enter an intermediate destination as described under „The New destination menu“ on page 45 (**Enter address**, **Select from last destinations**, **Select Point of Interest**, **Travel Guide**, **Contacts**, **Personal destinations**, **Select on map** or **Enter geo-coordinates**). You also have the option of quickly selecting a destination using the **Select from last destinations** button.
- > In the input menu, press the **OK** button to accept the relevant intermediate destination.



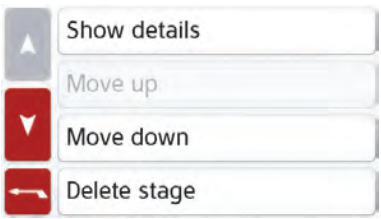
- > Press **Add stage** to enter further intermediate destinations as described above.
- > When you have entered all intermediate destinations, press the **Done** button.



- > Give the route a name of your choice. The stage menu for the new route will be displayed.

Editing a route

- > Select the route you wish to edit.
- > Press the  button in front of the stage you wish to edit.



> The edit menu will be displayed. The following options are available:

Option	Meaning
Show details	The data relating to the intermediate destination is displayed. From this screen, you can display the intermediate destination on the map.
Move up	The stage is moved forwards by one position.
Move down	The stage is moved backwards by one position.
Delete stage	The stage is deleted from the route.

Option	Meaning
Replace stage	You can replace the selected stage with another intermediate destination.

Optimising a route

If you have entered several destinations for a route, you can use the Navigationsgerät to optimise the order of the destinations for the journey distance. The route stored is retained even after optimization, however. Call up the map display for the stages of the route.



Press **Optimise**.
The route is optimised and recalculated.



The optimised route is displayed.

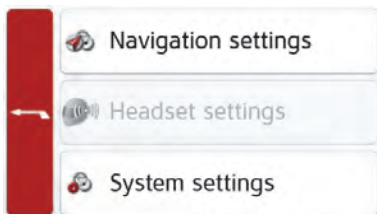
Navigation settings

The navigation settings contain all the settings that are relevant to the navigation functions.

Note:

All your settings must be confirmed by pressing the  button. Only in a few cases it is possible to confirm selections in the menu using the **OK** button or the **Yes** button.

> In the main menu, press the  button.

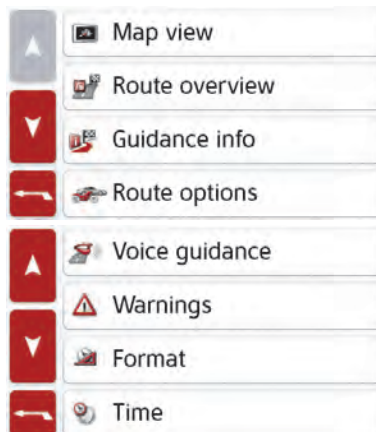


> Press the **Navigation settings** button.

This will take you to the navigation settings menu.

Configuration

Various pages containing functions are available in the menu:



You can go to the next or previous page of the settings by pressing the  and  buttons or the scroll wheel.

The Map view button

You can select whether the map is to be displayed in 3D or 2D mode, in a split screen with 3D or 2D display or in arrow mode.

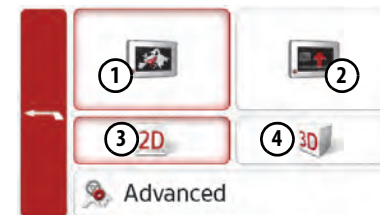
You can also select whether or not 3D buildings available in towns should be displayed in 3D mode.

Further setting options are available to you in the extended settings.

> Press the **Map view** button in the settings menu.

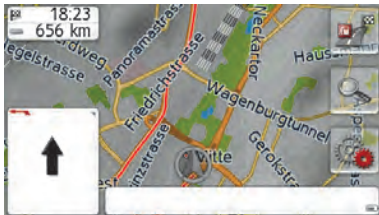


The **Map view** settings window appears.

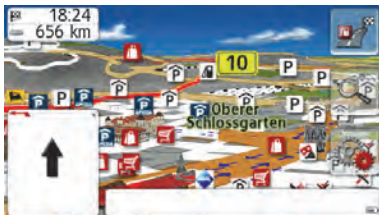


Press the **3** or **4** button to select whether the 2D or 3D display should be used.

> Press the **1** button to select the entire map.



> Press the ② button for the arrow display.



>To call up the extended settings, press the **Advanced** button.



The following setting options are available in the extended settings:

- **Auto zoom**

You can select how the map changes when approaching an action point or at different speed.

- **Select POI categories**

You can select which symbols are displayed for points of interest on the map.

- **Infobox data fields**

In this menu you can define the data to be displayed in the Info box in the top left corner of the map view. You can select between Speed, Speed limit, Time and Height.

- **3D City models**

You can select whether or not 3D buildings available in towns should be displayed in 3D mode ☒ or not ☐. This option is only available with the 3D view active.

- **Street names 2D/Street names 3D**

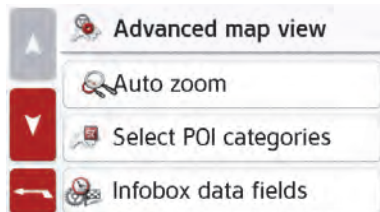
You can select whether the street names should be displayed (☒) or not (☐) in 3D or 2D mode.

- **2D heading up**

You can select whether the map should always be orientated to the direction of travel (☒) or to the north (☐) in 2D mode. This option is only available with the 2D view active.

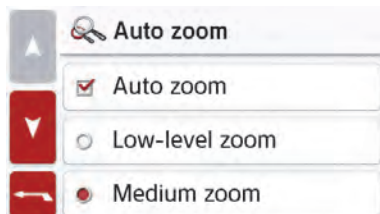
Auto zoom

> Press the **Auto zoom** button in the extended settings.



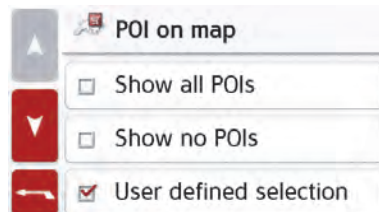
> Pressing the **Auto zoom** button switches the zoom function on (☒) or off (☐)

When the zoom function is switched on, you can select whether the autozoom action should be weak, medium or strong.

**Select POI categories**

You can select which POI symbols are to be displayed on the map.

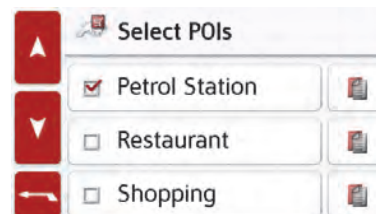
> Press the **Select POI categories** button in the extended settings.



> Selecting **Show all POIs** displays all points of interest on the map.

Selecting **Show no POIs** displays no points of interest on the map.

Selecting **User defined selection** and then pressing the **Select POIs** button allows you to determine for yourself in the menu which then appears whether each individual points of interest category is displayed or not.



You can then switch the display of entire categories on (☒) or off (☐)

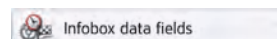
After pressing the  button beside a category you can switch subcategories in further menus on or off.

> Confirm all your settings by pressing the  button.

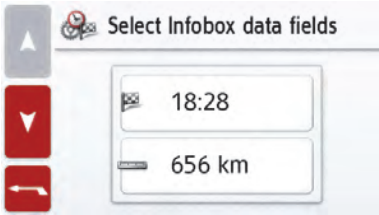
Selecting Info box data fields

In this menu you can define the data to be displayed in the Info box in the top left corner of the map view.

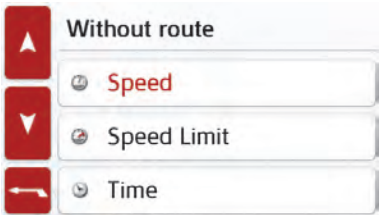
> Press the Info box data fields button.



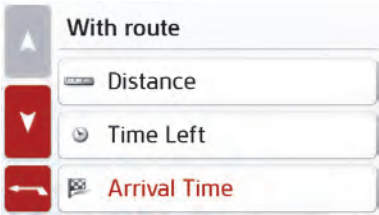
The Info box data field selection window appears.



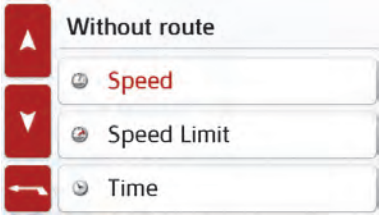
Touch the first field to select one of the possible options.
An options list appears on the right side over the window.



After selecting a route (cell with route), the following display options are available: Distance, Remaining time, Arrival time, Speed, Speed limit, Time and Height.



Under these options, you can select displays for the travel without a selected route. Here you can only select between Speed, Speed limit, Time and Height.



3D city view

With this option, you can select whether or not 3D buildings available in towns should be displayed in 3D mode or not. In the Advanced menu, press the 3D city view button to turn the function on or off.

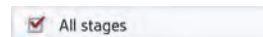
> Confirm your setting in the Advanced menu by pressing the  button.

Note:
This setting is only available in the 3D view.

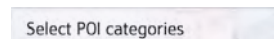
The route overview button

> The options in this settings menu allow you to choose which points of interest can be displayed in the map view when pressing the route overview  button.

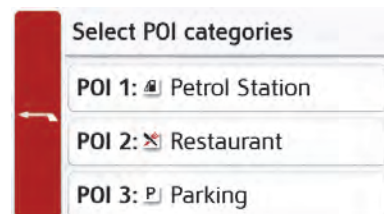
> Activate the option All Destinations.



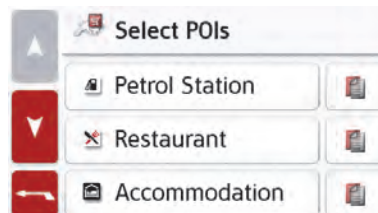
The Route Overview displays the Points of Interest selected in the POI Categories menu. The display is recalculated every two minutes.



The Select POI Categories window is opened. Three point of interest categories can be selected.



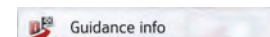
If you touch the preset option of one of the POI Categories (POI 1, 2 and 3), a selection list with 20 POI types appears.



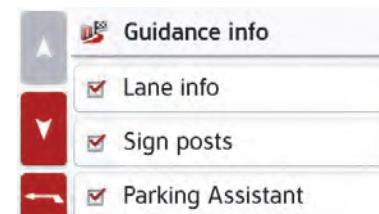
The Guidance info button

In the **Guidance info** settings window you can select which additional information you would like displayed during route guidance.

> Press the **Guidance info** button in the settings menu.



The **Guidance info** settings window appears.



The following settings are available:

Setting	Meaning
Lane info	When this function is enabled, a small arrow indicates which lane you should move into in the case of multi-lane roads.

Setting	Meaning
Signposts	When this function is activated, you receive additional important information at traffic junctions about the sign you should follow.
Country info	When this function is enabled, you will automatically receive generally applicable traffic information for the relevant country when you cross a national border (e.g. speed limits).
Lane Assistant Pro 3D	If this function is activated, you will see an animated, realistic representation of your lane at many junctions if available.

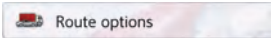
Setting	Meaning
Junction view	If this function is activated, you will see realistic views of the current lane situation, if available, at many motorway intersections.
Tunnel View	If this function is activated, you will see a three-dimensional tunnel view when entering a longer tunnel.

Note:
This information can only be displayed if it is contained in the map material.

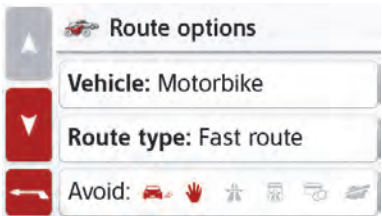
- > Press the relevant button to switch the required function on ☒ or off ☐.
- > Confirm your selection by pressing the  button.

The Route options button

You can edit your driving profile in the **Route options** settings window. The settings made here have an effect on the route selection and on the calculation of the estimated journey times.
> In the settings menu, press the **Route options** button.



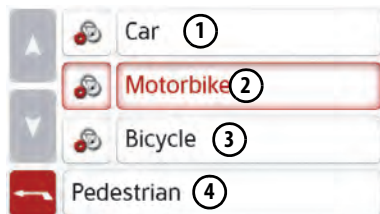
The **Route options** settings window appears.



Selecting the vehicle profile (depending on model)

This setting influences the calculation of the expected time of arrival and blocks e.g. motorways for the bicycle setting.

> Select the mode of travel or the required vehicle profile after pressing the **Vehicle** button.

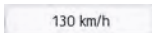


> The different profiles are displayed and you can select the desired profile by pressing the appropriate button.

- ① Car profile
- ② Motorcycle profile
- ③ Bicycle profile
- ④ Pedestrian profile

After selecting the desired profile, it is displayed.

You can now change the selected profile.

> Press the settings button  or  button.

The window for selecting the maximum speed is displayed.



Select a speed and exit the speed menu with the back button .

> Exit the vehicle selection menu, too, with the back button .

The selected vehicle type is now displayed.

The required profile is displayed once selected.

Selecting the route type

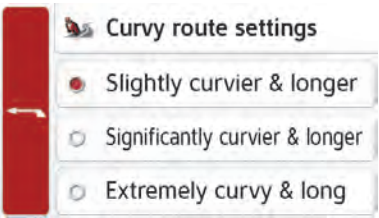
> After pressing the **Route type** button, select one of the following options.

Option	Meaning
Winding Route	A particularly winding route is calculated with this option. This route can be significantly longer than other routes. The form of the setting can be varied in 3 levels, see Unbekannte Quelle des Querverweises.
Fast route	With this option, the fastest route in terms of travel time is calculated.
Short route	With this option, the shortest route in terms of mileage is calculated.
Easy route	With this option, a route with as few manoeuvres as possible is calculated. This may result in larger detours.

Winding Route

With this option a route can be selected that is specially tailored to the needs of the motorcycle. The calculated routes can sometimes be considerably further and also last longer than with other route options! Three different settings are possible, which can vary considerably from each other depending on the route.

> Select the  button after the **Winding Route** menu item



Slightly more winding & longer

Motorways, multi-lane highways and town thoroughfares are somewhat avoided and correspondingly smaller roads are selected instead. However, on longer routes, road sections can quite possibly even pass via motorways or multi-lane highways.

Considerably more winding & longer

Motorways, multi-lane highways and town thoroughfares are avoided and correspondingly smaller roads are selected instead. However, on longer routes, road sections can quite possibly even pass via multi-lane highways or through towns. Motorways should hardly be used any more.

Extremely long & winding

Motorways, multi-lane highways and town thoroughfares are very greatly avoided and correspondingly smaller roads are selected instead. The calculated route will only pass via motorways or multi-lane highways in exceptional cases.

Avoiding particular types of road

After pressing the button **Avoid** you can exclude various types of road (e.g. **motorways, ferries and toll roads**), from the route calculation.

You can set one of the following options for each of these road types.

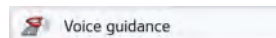
Option	Meaning
Permitted 	With this option, the road type in question is included in calculating the route.
Prohibited 	With this option, the road type in question is not included in calculating the route.

> Confirm your selection in the **Route options** window by pressing the **OK** button.

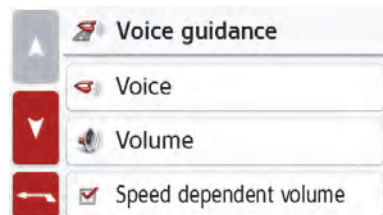
The Voice guidance button

In the **Voice guidance** settings window you can make settings relating to the voice guidance of the Navigationsgerät.

> Press the **Voice guidance** button in the settings menu.



The **Voice guidance** settings window appears.



The following setting options are then available:

- **Voice**

You can select the voice that will make the navigation announcements for the language that has been set.

- **Volume**

You can select the standard volume for voice announcements for each start of the Navigationsgerät, or switch off voice announcements completely.

- **Noise Level**

With the **Noise level** button, you can adjust the speed-dependent volume control. To do this, select the noise level suitable for your vehicle.

Note:

If the announcements of your navigation device are too loud at high speed, you should select a lower noise level. If the announcements are too quiet, you should select a higher noise level.

- **Announce streets**

Using the **Announce streets** button you can switch the announcement of the names of streets into which you are to turn on (☒) or off (☐)

- **Announce time of arrival**

Using the **Announce time of arrival** button you can switch the automatic announcement of the expected arrival times on (☒) or off (☐)

Note:

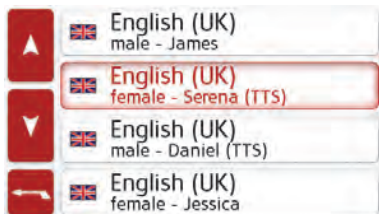
The **Announce streets** and **Announce time of arrival** functions are only supported by speakers with the TTS function.

Setting the Voice

In the **Voice** settings window you can set the voice that will make the navigation announcements for the language that has been set.

> In the **Voice guidance** settings window, press the **Voice** button.

The **Voice** settings window appears.



> Select the desired voice.

Note:

Voices with a (TTS) tag support the text-to-speech function (e.g. announcing roads and reading out text messages).

A short example announcement is given.

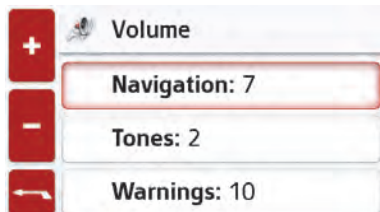
> Confirm your selection by pressing the  button.

Setting the Volume

With the **Volume** settings window, you can set the standard volume for voice announcements for each start of the Navigationsgerät, or switch off voice announcements completely. Depending on the situation, this setting can be fitted into the map display.

> In the **Voice guidance** settings window, press the **Volume** button.

The **Volume** settings window appears.



Select the desired volume with the  and  buttons or the scroll wheel.

> The voice output can be switched off completely or turned back on by pressing the Mute button.

> Confirm your settings by pressing the  button.

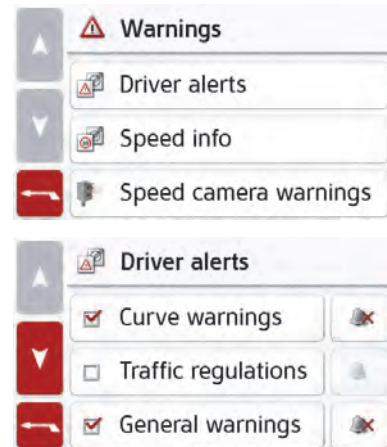
The Warnings button

In the **Warnings** settings window you can select which warnings are to be displayed by the Navigationsgerät or which warning sounds are to be output.

> In the settings menu, press the **Warnings** button.



The **Warnings** settings window appears.



The following setting options are then available:

- **Driver alerts (depending on the model)**

You can have signs displayed, for example for dangerous curves or steep gradients, provided this information is stored in the map data.

- **Speed info**

You can select whether speed limits are displayed in parallel to the navigation.

You can also receive an audible warning about exceeding the speed limit.

- **Speed camera warnings***

You can receive a warning about permanent speed checks.

Note:

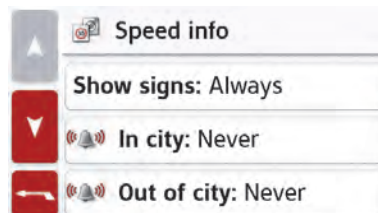
There is no standardised rule in Europe on the use of this function (warning about speed checks). Please check the legal situation in the respective country. In Germany, for example, it is an offence to use this function while driving.

Setting Driver alerts

If this information is saved in the map material and is supported by your navigation device, you can display information signs, e.g. for dangerous bends or descending gradients. In addition, you can define whether the display of the sign is also to be accompanied by a warning sound.

> In the **Warnings** settings window, press the **Driver alerts** button.

The **Driver alerts** settings window appears.



The available driver alerts are divided into 4 categories. The four categories can be enabled ☒ or disabled ☐ individually.

The warning sound can be set individually for each of the four categories by pressing the symbol with the bell (warning sound switched on).

The following signs are available in the individual categories:

- **Curve warnings**

This category includes warning signs that relate to sharp curves.

- **Traffic regulations**

This category includes other traffic regulations, such as no passing zones.

- **General warnings**

This category includes all other warning signs, such as steep gradients, falling rocks.

- **Informatory road signs**

This category contains the available information signs.

> Confirm your settings by pressing the



button.

Setting Speed info

The **Speed info** settings window allows to select whether speed limits are displayed in parallel to the navigation. You can also receive an audible warning about exceeding the speed limit.

Note:

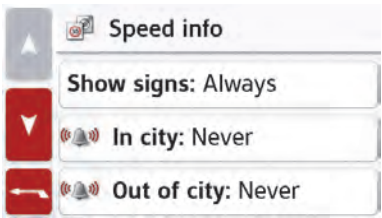
This information can only be displayed if it is contained in the map material.

 Risk of accident!

The information in the map material may be incorrect as a result of short-term changes (road works, for example).

The traffic situation and the local road signs take precedence over the navigation system information.

> In the **Warnings** settings window, press the **Speed info** button.
The **Speed info** settings window appears.



The following settings are available.

Setting	Meaning
Show signs	Select whether speed limits are never displayed, always displayed or only displayed if the limit is exceeded. Furthermore, you can select whether the sign should blink when exceeding the speed limit, by selecting Always or If speed limit is exceeded .
In city	Select the amount over the speed limit at which you would like to receive an acoustic warning within built-up areas.

Setting	Meaning
Out of city	Select the amount over the speed limit at which you would like to receive an acoustic warning within built-up areas.
Alert	An audible signal is to sound when exceeding speed limits.
Voice output	A speaker's voice warns you of exceeding the speed limit.

> Confirm your selection by pressing the  button.

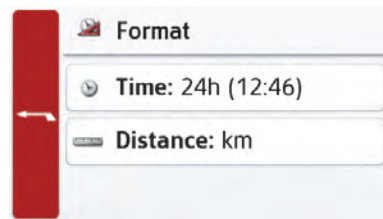
The Format button

In the **Format** settings window you can set the measurement units to be used for times and distances.

> In the settings menu, press the **Format** button.



The **Format** settings window appears.



> Press the **Time** button to switch between the 12 hour clock and the 24 hour clock.

> Press the **Distance** button to switch between kilometres and miles.

> Confirm your settings by pressing the  button.

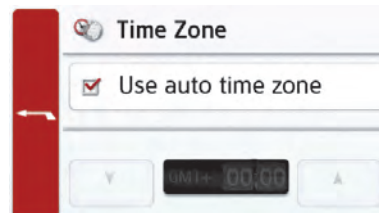
The Time button

You can select the time zone relevant for your location in the **Time** settings window. This setting is important for the correct calculation of the estimated time of arrival.

> Press **Time** in the settings menu.



The **Time** settings window appears.



Using the **Time zone** you can set whether the time zone should be set automatically by the Navigationsgerät or not (**Use auto time zone** on  or **Use auto time zone** off ).

If the automatic function is switched off, you can select the desired time zone by pressing the button below **Use auto time zone**.

The Reset button

You can reset the navigation settings to their factory settings.

The settings will then be reset. The fast access mode data, stored routes, blocked routes, voice and home address are retained.



> Press the **Reset** button.



> Press the **Yes** button.

The navigation settings are reset to their factory settings.

The map display

The map display is used primarily for route guidance. However, you can also use the map display without route guidance to show your current position and, for example, to receive warnings about exceeding the speed limit.

Calling up the map display

The map display is called up automatically when you start route guidance.

Without route guidance, you can call up the map display from the main menu.

The map display will then appear and, if GPS reception is available, will show your current position.

If route guidance is already active, the map will be displayed with route guidance.

Structure of the map display

The structure depends on the settings made in „Map display options“ on page 80 or in „The Map view button“ on page 61 and whether route guidance is active or not.

Map display without guidance info

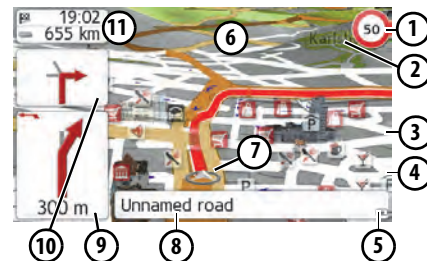


If the navigation is not active, almost the entire surface of the touchscreen is filled by the map display.

- ① The speed limit of the road you are currently travelling on (display is not available for all roads) as well as driver warning signs are displayed
- ② Zoom buttons
- ③ Display of battery level / telephone status (depending on model)
- ④ Button for calling the options
- ⑤ Vehicle position

- ⑥ Current road
- ⑦ Info box (if displayed) with vehicle speed and position height above sea level

Map display with guidance info



- ① The speed limit of the road you are currently travelling on (display is not available for all roads)
- ② Driver warnings (depending on model)
- ③ Route overview button (only active if route is selected).
- ④ Button for calling the options
- ⑤ Display of battery level / telephone status (depending on model)
- ⑥ Traffic lane recommendation (can only be seen for certain multi-lane roads, red arrow = recommended traffic lane)
- ⑦ Vehicle position

Note:

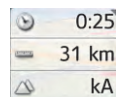
If you follow the traffic lane recommendation, the next driving manoeuvre is possible without changing traffic lane.

- ⑧ Current road or street that the next driving manoeuvre leads to
- ⑨ Distance to the next driving manoeuvre
- ⑩ Next driving manoeuvre
- ⑪ Info box

Your current position is displayed on the map via the position icon.


The Information box

During route guidance you can have information displayed in the Info box.



①

②



If you press the Info box again, more or less fields are displayed. At least one field and a maximum of three fields can be displayed. The information displayed depends on the settings that are selected in the **Navigation settings in the map view menu > Advanced > Info box data fields**. The following can be selected:

- With selected route ①: Remaining distance to destination, remaining travel time, arrival time at the destination, speed, speed limit, time and and height above sea level.
- Without selected route ②: Speed, Speed limit, Time and Positionheight

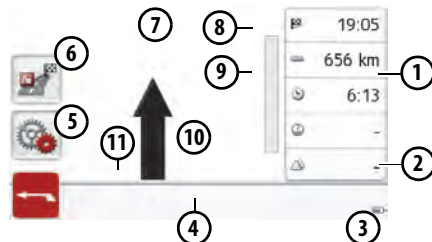
Information is also displayed in the bottom left corner in the preview area.



The next manoeuvre is displayed as an arrow, with a distance indication underneath it. If two driving manoeuvres are to be performed in succession within a short time, another smaller arrow indicating the second driving manoeuvre is displayed above the first arrow.

You can adjust the volume of the navigation announcements by pressing the button with the speaker symbol in the preview area (See "Setting the Volume" on page 70).

Guidance info with arrow display



- ① Info box
- ② Vehicle speed and position height above sea level
- ③ Display of battery level / telephone status (depending on model)
- ④ Current road or road that the next driving manoeuvre leads to
- ⑤ Button for calling the options
- ⑥ Route overview button (only active if route is selected)
- ⑦ Traffic lane recommendation (can only be seen for certain multi-lane roads, red arrow = recommended traffic lane)
- ⑧ The speed limit of the road you are currently travelling on (display is not available for all roads)

- ⑨ Driver warnings (depending on model)

Note:

If you follow the traffic lane recommendation, the next driving manoeuvre is possible without changing traffic lane.

- ⑩ Next driving manoeuvre
- ⑪ Distance to the next driving manoeuvre

Lane Assistant Pro 3D (model dependent)

You can display an animated realistic representation of the lane at many junctions. To do this, switch on the function **Lane Assistant Pro 3D** as described under „The Guidance info button“ on page 65. At selected complex junctions you will be shown exactly which lane you have to change to. You can leave the Lane Assistant Pro 3D again by touching the display.



Map display with Junction view

You can display a detailed and realistic view of the lane situation at many motorway junctions.

To do this, switch on the **Junction view** function as described under „The Guidance info button“ on page 65.

If you are then directed through a motorway junction by the Navigationsgerät, you will see a corresponding display.



Follow the lanes indicated with the arrows.

Tunnel view

When you enter a longer tunnel, a three dimensional tunnel view appears. If there is no manoeuvre performed in the next 1000m in the tunnel, the lane of the current road section is displayed. An overview of the tunnel is displayed in the bottom on the right. When you touch the display, the tunnel view disappears. If any manoeuvres are performed in the tunnel, or if the next manoeuvre is performed outside the tunnel, a tunnel view is displayed in full image mode with the coming manoeuvre.

Note:

The tunnel view and the intersection view can be deactivated by touching the display. The map view is displayed again. If you would like to deactivate the tunnel view permanently, de-select the "Tunnel view" option in the **"Settings > Navigation settings > Route guidance"** menu.

Note:

The tunnel view provides a schematic view of the route layout of the tunnel. The whole tunnel layout, the first route section and the vehicle position are displayed. Since there is no GPS signal during the travel through the tunnel, the displayed position is only calculated.

Using the map display

Map zooming

The map can be zoomed into in steps by using the zoom buttons.

- > Press the  button. The zoom buttons are displayed.



- > Press zoom in  to "zoom in on the map" and therefore to get closer to the details displayed.
- > Press zoom out  to "zoom out from the map" and therefore to obtain a larger overview.
- > Press the  button to switch back to the set zoom step after a change.

Note:

The zoom steps are altered in quick succession by pressing and holding the  or  button.

If you change the zoom step, a button with two red lenses  are displayed.

- > Press the  button to restore the originally set zoom step.

Moving the map

You can move the map to any point.

- > To do this, press the map briefly.



- > Then press any point on the map and move it in the required direction. The map is then moved accordingly.

Note:

By pressing the **GPS Position** you can display your current position again.

You can also select a point as a destination as described under „Selecting a destination from the map“ on page 56.

Map orientation

When a route is activated, the map view can be oriented in different ways.

If you have selected a 2D view in the Navigation settings in the map view (see page 64), this pertains to the compass direction only.

- > Press the 2D map view on the display a little longer.



- > Apart from the pulsating point, a compass and two arrow buttons pointing to the left and right appear on the top edge of the screen.
- > Press the  and  buttons to rotate the map towards the desired compass direction.



You can orient the map for example in the direction of travel.

The Route overview

With the Route overview, you can have Points of Interest (POIs) and, if the TMC on route option is activated in the **Navigation settings > Route overview** menu, TMC events displayed on the selected route.

> Press the  button.

A list of POIs and traffic events are displayed. In the top edge of the screen, four single buttons are displayed for TMC announcements on the route and the three selected POI Categories are also displayed. Apart from the symbols, the number of TMC announcements and POIs are displayed.

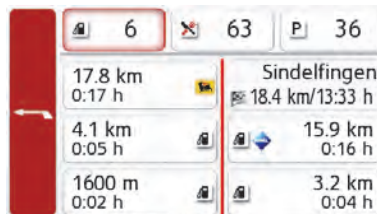
> Press one or more buttons to display

TMC events or POIs.

A list of POIs and, if applicable, TMC events is displayed with the expected arrival time and distance from the current vehicle position.

> Press the desired Point of Interest or TMC event.

Information such as the address and the telephone number of the POIs or the type of traffic obstruction are displayed. From this view, all actions already described in the chapter Points of Interest on page 52 can be accessed, such as displaying POIs on the map, inserting or storing stopovers on routes.



The red line in the middle of the screen represents your route. If this line ends with two points, then the list continues and you can scroll through the complete list by moving your finger.



At cross-border destinations, the border crossing is displayed with the appropriate national flag. If you select the petrol station button, a petrol station is displayed before and after the border if available.

Note:

If there is a traffic jam announcement on the route, the TMC symbol  appears on the  button. If there are no traffic jams reported on the route, the POI symbol  is displayed instead.

Map display options

In the map display options, you can change the settings for route guidance, the map display and the route.



On the map display, press the button on the bottom right.



This opens the options menu for the map display.

You can go to the next or previous page of the options by pressing the  and  buttons or by using the scroll wheel.

Note:

The scope of the displayed functions depends on whether route guidance or a route with several destinations is active.

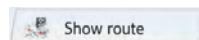
The options menu is exited either by selecting a function or by pressing the  button.

Displaying the whole route

(Only available when route guidance is active.)

You can have the whole route to the destination displayed on the map. Additionally, you can have a complete route description displayed. As a further option, you can display and, if needed, select the different routes that can be set in the Route options.

> Call up the options menu for the map display.



> Press the **Show route** button.



> The complete route is displayed.

Move route (model-dependent)

Becker RouteMove allows you to move your route with a single movement of your finger, providing a rapid means of adjusting your current route guidance with just one hand. After you switch to the Show route screen, the  icon is displayed on the left-hand side. It takes just a short time for the function to become available and the icon to change. As soon as this icon  is displayed and you select it, the route displayed can be moved.

Press and hold your finger down anywhere on the route displayed on the screen and drag the route to where you want it to be. The device will immediately calculate the updated route.

Original route



New route



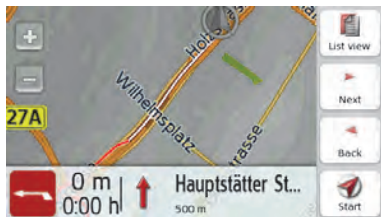
The distance and journey time of the new route are displayed immediately underneath.

You can set the route options using the **Options** button.

By pressing the Play  button, the whole route can be simulated. The control elements, that are displayed by touching the screen shortly, allow you to play the simulation in up to 16x speed, or to step from route section to route section. The simulation can be stopped by pressing the back  button.

Route description

> When the whole route is displayed, press the **Sections** button.



> The first point of the route description is displayed on the map.

You can scroll through the whole route description with the **Next**  and **Back**  buttons.

You can also display a list version of the route description. For this press the **List view** button. The simulation is continued by pressing the **Resume**  button.



Press the   arrow keys on the right hand side of the screen to scroll through the list.

If you press an entry in the route

description, it is displayed on the map.

Blocking route sections/roads

You can block individual route sections/roads. The Navigation device then calculates a sensible diversion to avoid the blocked section.

> Use the  and  buttons in the route directions to select the section of the route to be blocked.

> Press the **Block** button.

> Select **Block for current route** to block the section of the route for the current route guidance session only.

Note:

If the route section is more than 10 kilometres long, you can choose, in another menu, whether to block the entire section or just part of it.

Selecting alternative routes

You can have the different routes displayed by the navigation device.

> When the whole route is displayed, press the Alternative routes button.

(This function can be selected in the Route overview, too.)

After a short time, the map is displayed. Each route is calculated after each other and displayed on the map. On the right-hand side, you can see the coloured list of the single routes, according to the kilometres to be travelled and the expected duration of the travel.

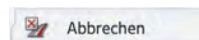
You can select the desired route by pressing the buttons on the right.

Canceling route guidance

(Only available when route guidance is active.)

You can cancel the active route guidance.

> Call up the options menu for the map display.



> Press the **Stop guidance** button.

This cancels route guidance to all destinations.

Note:

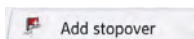
You can also cancel route guidance as described in „The main menu“ on page 29.

Entering/deleting a stopover

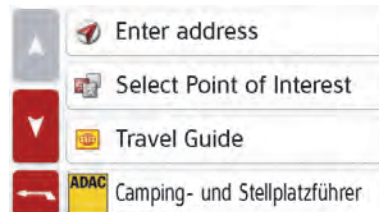
(Only available when route guidance is active.)

With this function, you can enter a stopover, or you can delete an entered stopover.

> Call up the options menu for the map display.

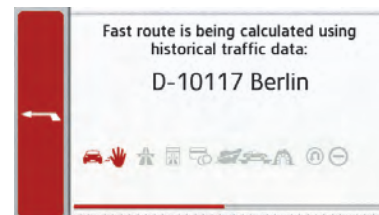


> Press the **Add stopover** button.



> You can now enter a stopover as described under „The New destination menu“ on page 45 (**Enter address**, **Select Point of Interest**, **Personal destinations**, **Contacts**, **Select on map** or **Enter geo-coordinates**). You also have the option of quickly selecting a destination using the **Select from last destinations** button.

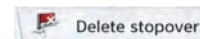
If you have entered the desired stopover, the route is recalculated.



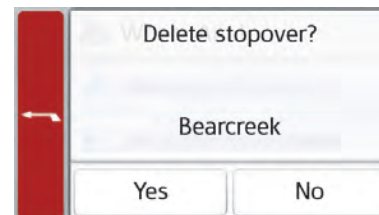
The stopover is indicated on the map by a red flag.

Deleting a stopover

> Call up the options menu for the map display.



> Press the **Delete stopover** button.



> Press the **Yes** button.
The stopover is deleted.

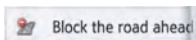
Blocking route temporarily

Using the **Block road ahead** option, you can block a stretch of road ahead temporarily. This determines a certain stretch of road that should not be used. The Navigationsgerät will now try to calculate a detour.

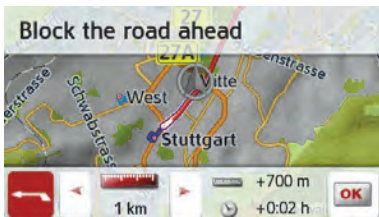
Notes:

- The selected length of the block is only an approximation since the actual distance blocked depends on the availability of an exit.

> Call up the options menu for the map display.



> Press the **Block the road ahead** button.



> Select the length of block you want by pressing the arrow buttons.

If route guidance is active, you can select a road length between 200 m and 50 km. As soon as you selected the stretch, a new route will be calculated. Furthermore, the distance and time difference are also displayed in the lower part of the display.

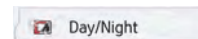
Notes:

- If route guidance is not active, you can only select between 200 and 500 m (250 and 500 yards). You can then define directly the days and times when the route should be blocked.
- After the temporary blocking of a section, the Clear blockings option appears in the option menu of the map view. Press this button to delete all temporary blockings. If a route guidance is active, the former route is restored.

Setting day/night display

You can switch the Navigationsgerät display from day to night and vice versa.

> Call up the options menu for the map display.



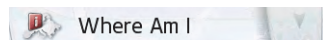
> Press the **Day/Night** button.

The display changes from day to night and vice versa.

Displaying current position (Where am I?)

You can display your current position, make an emergency call (depending on model), select a hospital or filling station and save this position. Furthermore, you can display information regarding the current GPS reception and the current country.

> Call up the options menu for the map display.

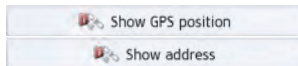


> Press the **Where Am** button.



> The current position is displayed. If possible, an address is displayed. If no address is available for the current position, the geographic coordinates are displayed.

If possible, you can change between the views using the buttons

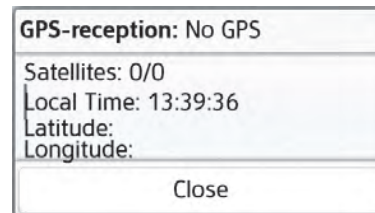
or
. In addition, you have other telephone functions at your disposal. Also see chapter „Telephone Mode“ on page 88. With the Hospital button, you can change directly to the places of interest category Hospital in the current vicinity. Also see chapter „Points of interest“ on page 51. With the Petrol Station button, you can change directly to the places of interest category Filling station in the current vicinity. Also see chapter „Points of interest“ on page 51.

You can return to the map using the **Resume** button.

By pressing **Save** you can store your current position in the fast access list.

By pressing the **Country info** button you can display country-specific information such as the maximum permitted speed for the country you are currently in. Click on the relevant icon to display additional information.

By pressing **GPS info** you can view information regarding the GPS reception.



You can see how many satellites are being received, and whether the satellite reception is good enough for navigation. The current time and the geographic position are also displayed.

Entering the destination

(Only available when route guidance is not active.)

You can enter a destination.

- > Call up the options menu for the map display.
- > Press the **Enter destination** button.



- > You can now enter a destination as described under „The New destination menu“ on page 45 (**Home, Enter address, Select Point of Interest, Personal destinations, Contacts, Route planning, Select on map** or **Enter geo-coordinates**).

Displaying/selecting different routes

You can use the Navigationsgerät to display various routes.

- > With the entire route displayed, press the **Alternative** button. This function can also be selected in the options of the map display. See "Map display options" on page 80.

After a short time, the map is displayed. Each route is calculated after each other and displayed on the map..



The area on the right-hand side shows the colour key for the individual routes, the mileage for each route and the estimated driving time.

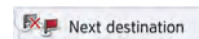
You can select the desired route by pressing the buttons on the right.

Skipping a destination

If a planned route with several destinations is active, you may delete the current destination of the route. Route guidance to the next destination is then started.

This may be necessary if a destination was not driven to directly. The Navigationsgerät otherwise tries to guide you to the current destination.

- > Call up the options menu for the map display.



- > Press the **Next destination** button. Route guidance to the next destination is started.

Display height profile

You can display a height profile from the Show route or Alternative routes view. To do this, select the  button.

Height profile for a route:



You can use the  and  buttons to adjust the zoom level and move to the left or right to shift the height profile. If you select a point by touching the profile, the corresponding height and distance from the starting point are displayed for it. Press the  button to go back to the route view.

Height profile for alternative routes:



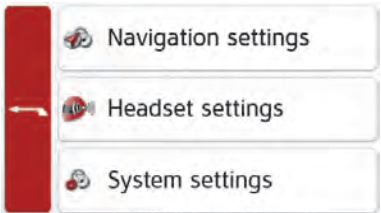
Yet more functions are available for alternative routes. Press the **Next**  and **Previous**  buttons to highlight the individual height profiles. The height profiles and their associated alternative routes on the right-hand side of the screen are displayed in the same colour. Once you have decided on a route, use the buttons on the right to select it.

Headset Mode

You can connect a headset equipped with Bluetooth® wireless technology to your navigation device. The voice outputs and warning alerts are then not output via the integrated loudspeaker but via the connected headset.

Below is a description of how to establish the connection.

> In the Settings menu, press the **Headset Settings** button.



> In the following menu you can switch Bluetooth® on and off, and select your headset from a list.

Icon	Meaning
	Switch Bluetooth® on and off

Icon	Meaning
	Display list of the available devices

The connection status is displayed in the list of available devices.

> Press the  button to display additional functions.

You can perform the following actions:

- Connect a device
- Disconnect the connection to a connected device
- Delete this device from the list
- Delete all devices from the list

Note:

A headset that has already been connected once is reconnected automatically after the navigation device is switched on. If the headset is first switched on later, then it might not be possible anymore to establish a connection. In this case, the navigation device should either be switched off briefly or the headset should be reconnected manually.

Telephone Mode

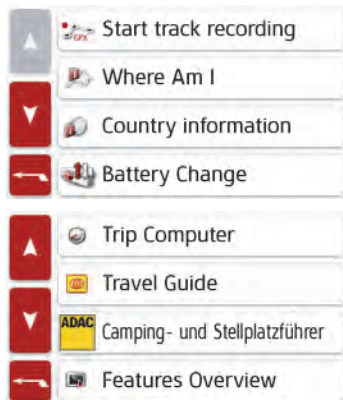
Similarly as described in the chapter Headset Mode, a telephone can also be connected to your navigation device. Any missed calls will then be displayed for you. Furthermore, you can also display SMS messages with selected devices. However, this function is not supported by all mobile phones.

Under Tools, the following functions are grouped together, depending on the model:

- Start track recording
- Marco Polo City Guides
- Image viewer
- Country information
- Overview of functions
- Change battery
- Trip computer

The Tools menu is called up from the main menu.

> In the main menu, press **Extras**.



This displays the extras menu.

> Select the desired function by pressing one of the buttons.

Starting track recording

> In the **Start track recording** menu you can record tracks that you can either start off from once again later or use with other devices. Chapter “My Tracks” on page 43 describes how you can export the track.



>Press the **Start track recording** button:

The track recording is started:

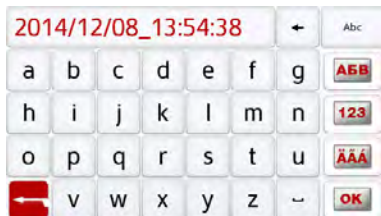
The button changes the designation, you can terminate the track recording again at the same point.

Alternatively, you can call up the card options in the card view with the  button, and terminate the track recording there as well.

After terminating the track recording, you will be asked whether you want to save the recorded track.

> > Select **No** if you do not want to save the track.

> > Select **Yes** if you want to save the track.



You can either use the default name or delete the name with the  button and then enter any other name.

The recorded routes are saved in the menu **My Destinations** submenu **My Tracks**.

Notice:

Sufficient GPS reception must be available in order to record tracks. Only routes longer than 300 m can be recorded.

An active track recording is indicated by a flashing icon in the bottom left-hand corner of the screen.

If the device was set to standby mode, the track recording is paused and can be resumed after switching on.

Travel Guide (model dependent)

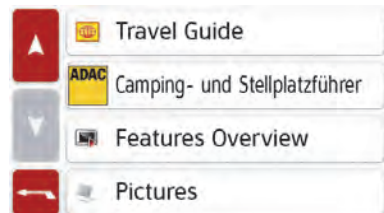
With the travel guide, you can select, for example, MARCO POLO Top-Highlights or MARCO POLO Insider Tips and start the guide destination there. See "Travel Guide (model dependent)" on page 55.

Image viewer*

Note:

The image viewer cannot be called up when route guidance is active.

The Image Viewer can display pictures saved on an inserted micro SD memory card or on the internal memory. The jpg and bmp image formats are supported.

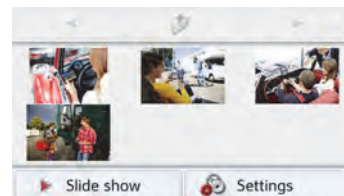


> Press the **Pictures** button.



A message is displayed stating that the image viewer must not be used when driving. Please observe this warning.

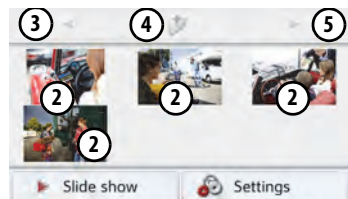
> Confirm the message by pressing the **OK** button.



The image viewer menu appears.

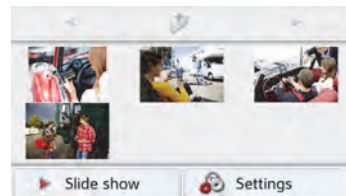
The image viewer menu

In the image viewer menu, you can select images, start a slide show and call up the settings.



- ① Folder containing images
- ② Thumbnails of the images in the current folder
- ③ View the previous page of images/folders
- ④ Go up one level in the directory hierarchy
- ⑤ View the next page of images/folders

Selecting an image



> In the image viewer menu, select the desired folder, and then the desired image.

You can use the ◀ and ▶ buttons to scroll through the pages of images and folders.

The selected image is displayed along with an image menu.



You can use the menu buttons to rotate or enlarge the image or to display information.

Press the buttons to the left and right of the image to move to the next or previous image.

Press the centre of the image to hide the image menu.



Press the right- or left-hand side of the screen to move to the next or previous image.

Press the centre of the image to show the image menu again.

Enlarging the image

- > Show the image menu.
- > Press the **Zoom** button.



- > Move the control on the top of the screen to the desired level of magnification.

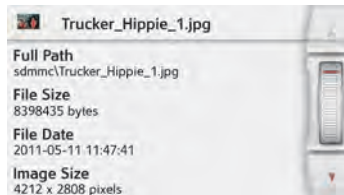
The image can then be moved around. Press the centre of the image to cancel the enlargement.

Rotating the picture

- > Show the image menu.
 - > Press the **Rotate** button until the image is in the desired orientation.
- Press the centre of the image to hide the image menu again.

Displaying image information

- > Show the image menu.
- > Press the **EXIF** button.



Information on the current image is displayed.

- > Press the  button to close the information.

Slide show

In the slide show, all the pictures in the current folder level are automatically displayed sequentially.

- > Press **Slide show** in the image viewer menu.

The image display changes to full screen display and initiates the slide show according to the settings made, with the first image in the current folder level.

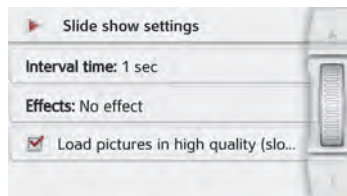
The slide show will end once all images have been displayed.

Press the  button to stop the show before the end.

Settings

In the settings, you can choose the speed at which the images are displayed, whether certain effects are used when a new image is shown, and whether the images should be loaded at a higher quality.

- > Press **Slide show settings** in the image viewer menu.



- > You can use **Interval time** to set the display duration.
- > In **Effects** you can choose the transition effects for the images.
- > In **Load pictures in high quality (slower)** you can choose whether images should be loaded at high resolution (☒) or not (☐) .

Loading the images at high resolution makes the display slower.

- > Confirm your settings by pressing the back button  .

Where am I?

- > See "Displaying current position (Where am I?)" on page 85.

Change of battery

With this function the battery can be changed and an active route continued. This function is particularly helpful for routes or tracks that have been planned

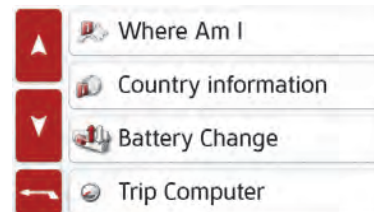
for some time.

After selecting the function, just wait until the screen becomes dark. Afterwards, the battery can be replaced by a fully charged battery, see "Inserting and removing the battery" on page 22.

After inserting the new battery and switching on the navigation device, the guidance info is continued automatically. If a track recording was active, this is also continued.

Country information

The country information enables you to display country-specific information for numerous countries (maximum permitted speed, alcohol limits, etc.).



- > Press the **Country information** button.



The list of countries is displayed.

- > Press the button for the desired country.



> The country-specific information is displayed (maximum permitted speed, alcohol limits, etc.). Click on these symbols to display additional information.

Note:
Please note that the information may not be complete and other regulations may apply in the various countries.

Press the  button to reset the values to zero.

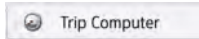
Symbol	Meaning
	Speed limit in built-up areas
	Speed limit outside built-up areas
	Speed limit on motorways
	Speed limit on main roads
	Alcohol limit
	Reflective jacket requirement
	Driving lights requirement during daytime
	Tow rope must be carried
	Spare bulbs must be carried
	Fire extinguisher must be carried
	Winter tyres must be fitted in winter
	Snow chains must be fitted in winter

Press the **OK** button or the  button to exit the menu.

Trip computer (depending on model)

The Trip computer provides a data display with average speeds, maximum speeds, etc. and a stopwatch with the option to record laps.

> In the main menu, press **Extras**.



> Press the **Trip computer** button.



> The data display appears.
The data display contains the following information:

- ① Current speed (as a number and in the form of a bar graph)
- ② Maximum speed
- ③ Average speed without breaks in the journey
- ④ Average speed with breaks in the journey

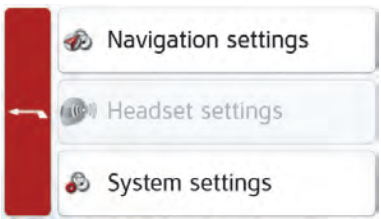
- ⑤ Total distance
- ⑥ Travel time without breaks in the journey
- ⑦ Travel time with breaks in the journey

Press the **Reset** button to reset the values to zero.

Selecting system settings

You can change various basic settings for all applications on the Navigation device.

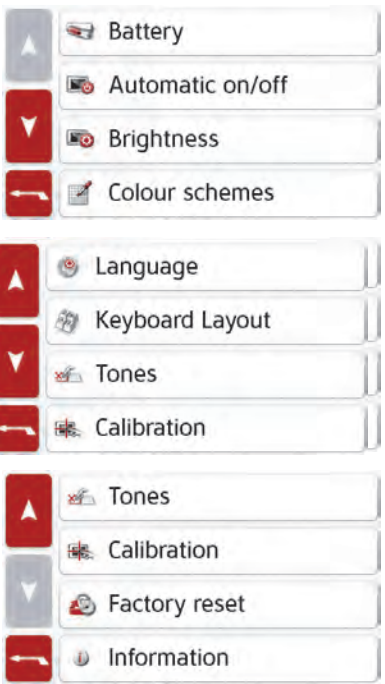
> In the main menu, press the  button.



> Press the **System settings** button.
The system settings menu is displayed.

The system settings menu

You can select the various settings options from the system settings menu.



Operation

Selection options

Select the desired menu item by pressing the appropriate button. The functionality of the buttons varies depending on the selection and is described under "The individual menu items" on page 97.

You can go to the next or previous page of the settings by pressing the  and  buttons.

Closing the settings menu

Press  to close the settings menu.

The individual menu items

Battery

Your Navigation device may be operated using an external power supply unit or an integrated rechargeable battery.

Note:

The current charging state is important when operating with a battery. If the battery is low on power, it may not be possible to continue navigation right to the destination.

The energy supply and status are shown on a display.

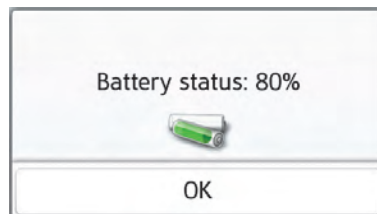
Displaying the power supply

You can call up the status display using the following button:



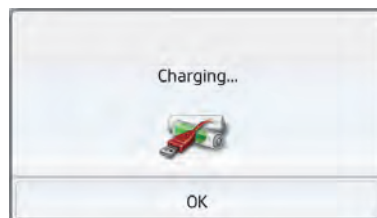
> Press the **Battery** button.

The status display appears and shows the power supply.



The power level is shown in the charge display. In the example, the battery still has around two-thirds charge.

The charging operation is indicated by the mains socket symbol in the status display.



Closing the status display

Pressing the **OK** button closes the status display and shows the settings menu.

Automatic on/off

The Navigation device can switch automatically to sleep mode when the vehicle ignition is switched off.

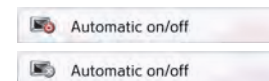
Prerequisite for this:

- The Navigation device must be connected to the vehicle cigarette lighter (see also page 21).
- The cigarette lighter is de-energized after the ignition is switched off.
- The relevant function can be switched on at the Navigation device.

Switching the function on/off

> Press the **Automatic on/off** button.

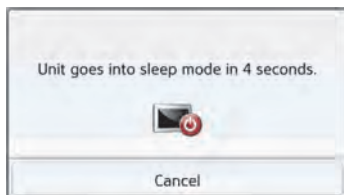
Depending on the previous setting, you can switch the function on or off. The current setting is shown by the icon.



- Top icon: The function is switched on, the Navigation device switches off automatically.

- Bottom icon: The function is switched off, the Navigation device does not switch off automatically.

The following display is shown during automatic switch-off.



You can cancel the automatic switch-off procedure by pressing the **Cancel** button.

Day/night display

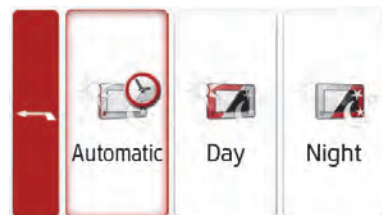
You can set the Navigation device display to day, night or automatic.

The automatic setting changes automatically between day and night display depending on the time, the current position and the time of year.

With the following button, you can call up the setting:



> Press the **Day/Night** button.

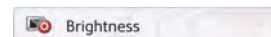


> Select from **Automatic**, **Day** and **Night**. The desired function is activated and the system settings are displayed.

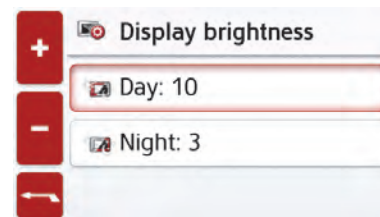
Brightness

You can set the brightness of the display separately for day and night display.

With the following button, you can call up the setting:



> Press the **Brightness** button.

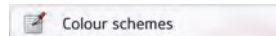


> Use the **-** and **+** buttons to set the desired brightness for the day and night display.

> Confirm your settings by pressing the back button  .

Setting the colour

You can change the colour of the icons and other design elements.



> Press the **Colour schemes** button.



> Select one of the eight predefined colours.

or

> Select the required colour using the slider ② at the bottom of the display.

Note:

The colour of the button ① corresponds to the red colour set at the factory.

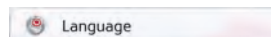
> Confirm your settings by pressing the back button .

Language

The texts on the touch screen can be displayed in a variety of languages.

Opening language selection

You can choose between the various languages using the following button:



> Press the **Language** button.

The language selection appears.



The language selection shows the available languages in a list several pages long. Each list field is in the form of a button. Each button is labelled with the language name and the associated national flag.

Scrolling

Using the buttons or the scroll wheel, it is possible to scroll through the list in the direction of the relevant arrow.

Selecting the language

> Press the button for the required language.

> The selection is confirmed by pressing the back button.

The selection list for the voice is displayed.

> Using the buttons or the scroll wheel, scroll through the selection list.

> Select a voice by touching the button.

> Press the Back button.

A prompt appears indicating that the software has been re-started, and you are asked whether you really want to change the language.

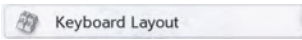
> Confirm the prompt using **OK**.

Cancelling the language selection

Pressing the **Cancel** button cancels the language selection and shows the settings menu.

Keyboard layout

You can switch the sequence of the keyboard layout by selecting the corresponding key.



Sounds

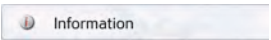
You can switch the Navigation device signal tone on and off. This also includes the clicking of the touch screen buttons.
> Press the **Tones** button.
Depending on the previous setting, the signal tones are switched on or off.



- Top icon: Tones switched on
- Bottom icon: Tones switched off

Service information

The following button displays information regarding the Navigation device.



> Press the **Information** button.
The information display appears with the software version number.



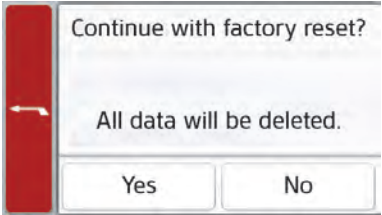
By pressing the **Service information** button, you can display further information such as used licences, installed contents and map material. Always quote these details in enquiries to the service provided by United Navigation GmbH.

Factory settings

You can reset your Navigation device to the factory settings.
The following updated data is deleted: saved destinations, saved routes, the home address, telephone data, images, videos etc. saved on the internal memory.



> Press the **Factory reset** button.



> Press the **Yes** button.
The Navigation device is reset to the factory settings.

Calibration (model dependent)

If the touch screen responds incorrectly when buttons are pressed, it needs to be calibrated.

Starting the calibration

You can start the calibration using the following button:



> Press the **Calibration** button.

The calibration procedure will be started.

You will be guided through the procedure by means of text instructions.

GMT

(**G**reenwich **M**ean **T**ime)

Central European Time standard
Standard time at 0 degree longitude (the longitude intersecting Greenwich, Great Britain). This time is used worldwide for synchronization of data collection.

Bluetooth® wireless technology

Technology for wireless data transmission at short range up to 10 metres.

GPS

(**G**lobal **P**ositioning **S**ystem)

GPS determines your actual geographical position by the use of satellites. It is based on a total of 24 satellites which orbit the Earth and transmit signals. The GPS receiver receives these signals and calculates the distance to each satellite from the running time differences and thus evaluates its actual current position in terms of geographical length and width. In order to determine the position, signals from at least three satellites are required, and the fourth one allows the height to be determined.

JPG/JPEG

(**J**oint **P**hotographic **E**xperts **G**roup)

The JPEG is the most common type of storage format for dissipating picture compression, i.e. when compressing, details of the picture are lost. Still provides good picture quality despite compression, compression stages are selectable. It is the most common format for representation and exchange of pictures on the internet.

SD card

(**S**ecure **D**igital)

The Secure Digital Card was developed in 2001 by SanDisk on the basis of the older MMC standard. An SD card is a rewritable change-over storage card.

Stylus

A stylus is an input pointer which is used for the operation of touch-screens, mobile phones or PDAs.

The stylus consists basically of a plastic pointer with a softer plastic core. The sleeve is hard and can be gripped and the softer core emerges at the tip and is designed to touch the screen as softly as possible (i.e. without the danger of scratching the screen).

The stylus is more accurate than operation using the fingers, since only the thin tip touches the screen. In addition, dirty marks on the screen caused by fingerprints are avoided.

TMC

(Traffic Message Channel)

Traffic announcements transmitted by most FM stations via RDS. Basis for dynamic navigation.

USB

(Universal Serial Bus)

The Universal Serial Bus (USB) is a bus system for interconnection of a computer with external USB peripherals for the exchange of data.

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● : standard - : not available ○ : optional	Navigation system	
	mamba.4 CE LMU BE P00	mamba.4 LMU plus BE P10
Weight	280 g	
Processor in MHz	800	
Flash memory	4 GB	8 GB
SD-RAM	128 MB	
Li-ion battery	1150 mAh	
Holder for windshield	-	●
Holder for vehicle integration	●	
Dimensions in mm (W x H x D):	130x92x29	
Screen size	10.9 cm	
Display resolution	480 horizontal and 272 vertical	
Resistive touch display	●	
Micro SD card reader	Support class 6 SDHC max. 32 GB; format FAT32	
USB interface	USB Client 2.0 Mini	
1 Internal loudspeaker	2 Watt max.	
Voltage source	5 V, 2 A	

Dear customer,

In conformance with current EC guidelines, any person may operate this unit. This unit conforms to the current valid European or harmonized national regulations. This designation is your guarantee that the unit conforms to the applicable specifications concerning electromagnetic compatibility. Interference caused by your unit affecting other electrical/electronic devices, as well as interfering influences on your unit from other electrical/electronic devices are largely prevented.

**EU Declaration of Conformity**

The **United Navigation GmbH** hereby declares that the navigation device described here is in compliance with the essential requirements of the EC directives and in particular is in compliance with the essential requirements and other relevant regulations of the R&TTE directive 1999/5/EG.

You can find a comprehensive EU Declaration of Conformity on our website <http://www.mybecker.com> under the "Downloads" area for the respective product.

Disposal of the unit

Customer information on the disposal of electrical and electronic devices (private households)

According to the self-proclaimed corporate principles of United Navigation GmbH, your product has been developed and manufactured from high-quality, recyclable materials and components.

This symbol on the product and/or accompanying documentation means that electrical and electronic products must be disposed of separately from the household garbage at the end of its service life. Please bring this product to the appropriate collection sites for processing and recycling. The units will be accepted there free of charge.

The proper disposal of this product serves the purpose of environmental protection and prevents the harmful effects to persons and the environment that may be caused by improper disposal.

For further information on the nearest collection points, please contact your local municipal authorities.



For commercial customers in the European Union

Please contact your dealer or supplier if you wish to dispose of this electrical/electronic device.

Information on disposal in countries outside the European Union

This symbol is only valid within the European Union.

Disposal of the battery

Duty to supply information according to battery legislation (BattV)

Batteries must not be disposed of in household waste. It is the duty of the user to return used batteries. Please only dispose of batteries via specialised dealers or at battery collection points. In this way, you make a positive contribution to environmental protection.

Since 1998, German battery legislation obligates all citizens to dispose of used batteries exclusively via the retail or at collection points specially equipped for this purpose (statutory obligation to return). It is the duty of the retail and of manufacturers to take back these batteries free of charge and to correctly recycle them or to dispose of them as hazardous waste (statutory obligation to take back).

The lithium ion battery in the Navigation device is marked with the adjacent symbol, consisting of a crossed-out waste bin, and the type of battery used.



Li-Ion

Removing the battery

Before you hand in your old unit for disposal, the battery must first be removed. See "Inserting and removing the battery" on page 23.

United Navigation GmbH

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